

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



PENOBSCOT HANCOCK COUNTY

ROUTE 166

FEDERAL PROJECT NO. 2427300

PROJECT LENGTH: 0.04 MILES

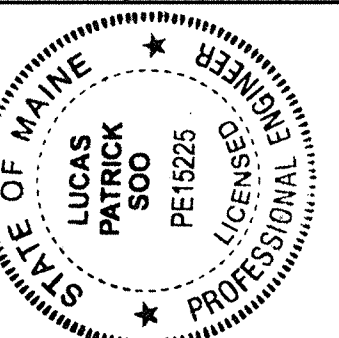
PLAN LEGEND

| | | | | |
|----------------------------|-------------------|-----------------------------|------------|------------|
| 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 Proposed | 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 Deciduous | Centerline-Existing | ----- | |
| Tree Line | ----- | Centerline-Proposed | ----- | |
| Clearing Limit Line | ----- | Travelway-Existing | ----- | |
| Railroad | ===== | Travelway-Proposed | ----- | |
| Boring | ⊕ HB-XXX-### | Probe | ⊕ P-#.X | |
| Pavement Core | ● PC-# | #, # = Depth | | |
| Test Pit | ■ TP-XXX-### | X = W (Weathered Rock) | | |
| | | R (Refusal) | | |
| | | NR (No Refusal) | | |

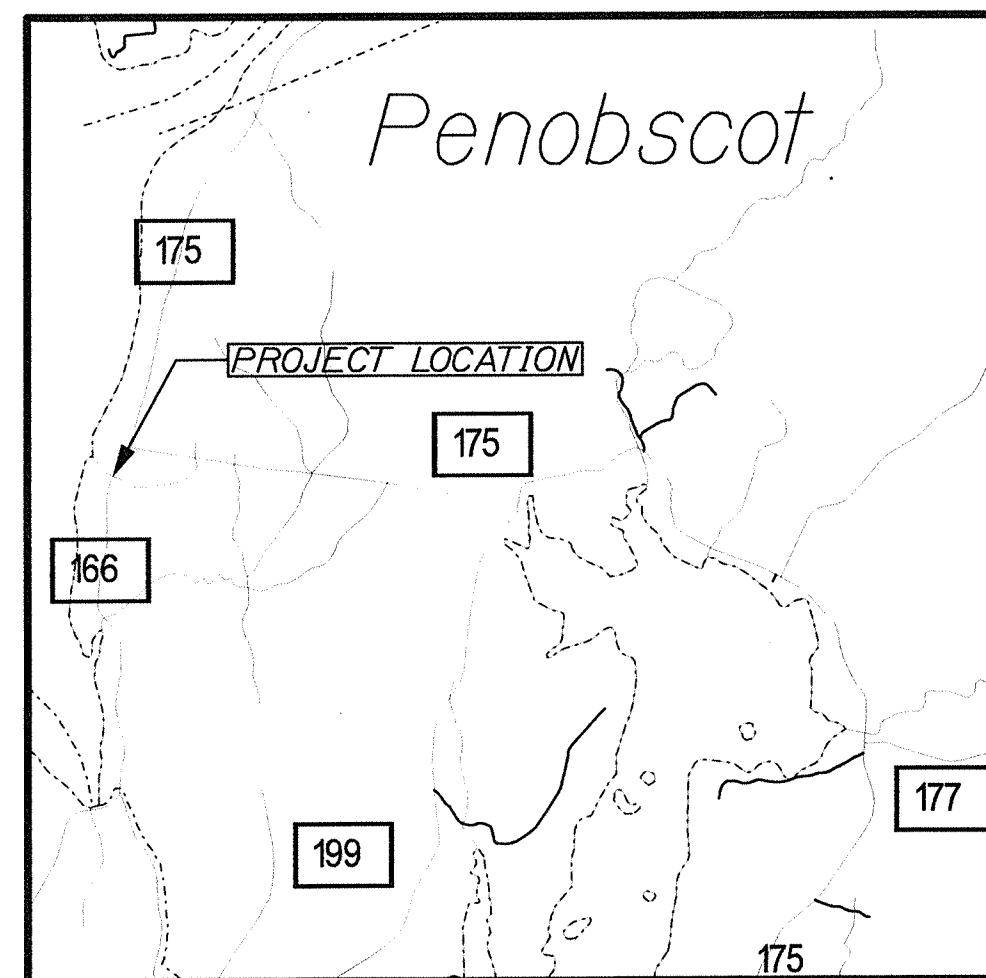
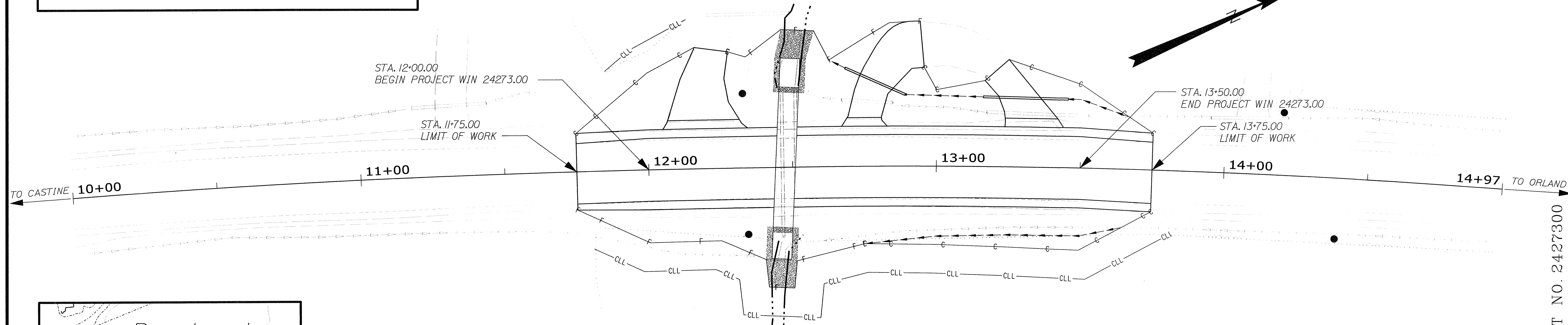
INDEX OF SHEETS

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|---------------------------------------|-----------|
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| Culvert Details | 3 |
| Boring Location Plan & Interpretive | |
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STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 APPROVED: _____
 COMMISSIONER: _____
 DATE: 12-7-22
 CHIEF ENGINEER: _____



SIGNATURE: _____
 P.E. NUMBER: PE15225
 DATE: 12/6/2022

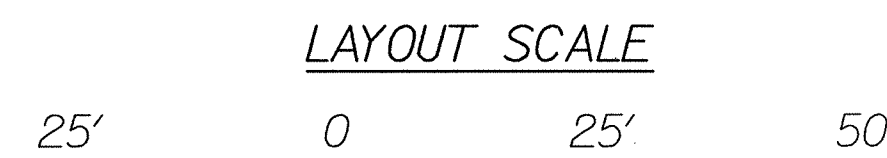


Scale in Miles
0 1 2

LOCATION MAP

TRAFFIC DATA

| | |
|--------------------------------|-----------------|
| Current (2022) AADT | 1490 |
| Future (2042) AADT | 1640 |
| DHV - % of AADT | 12% |
| Design Hour Volume | 197 |
| % Heavy Trucks (AADT) | 10% |
| Directional Distribution (DHV) | 55% |
| Design Speed (mph) | 50 |
| Functional Class | Major Collector |
| Corridor Priority | 3 |



Scale in Feet

| | |
|--------------------------|---|
| PROJECT LOCATION: | LARGE CULVERT #988887 LOCATED ON ROUTE 166 IN PENOBSCOT 0.16 OF A MILE SOUTHERLY OF THE INTERSECTION OF ROUTE 175 (NEW ROAD). |
| PROGRAM AREA: | HIGHWAY PROGRAM |
| SCOPE OF WORK: | LARGE CULVERT REPLACEMENT |

| PROJECT INFORMATION | |
|-------------------------|------------|
| PROGRAM | HIGHWAY |
| PROJECT MANAGER | R. BARROWS |
| DESIGNER | L. SOO |
| CONSULTANT | |
| PROJECT RESIDENT | |
| CONTRACTOR | |
| PROJECT COMPLETION DATE | |

PENOBSCOT
 ROUTE 166
 TITLE SHEET

SHEET NUMBER

1

OF 15

WIN 024273.00 FEDERAL PROJECT NO. 2427300

NOTES

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.

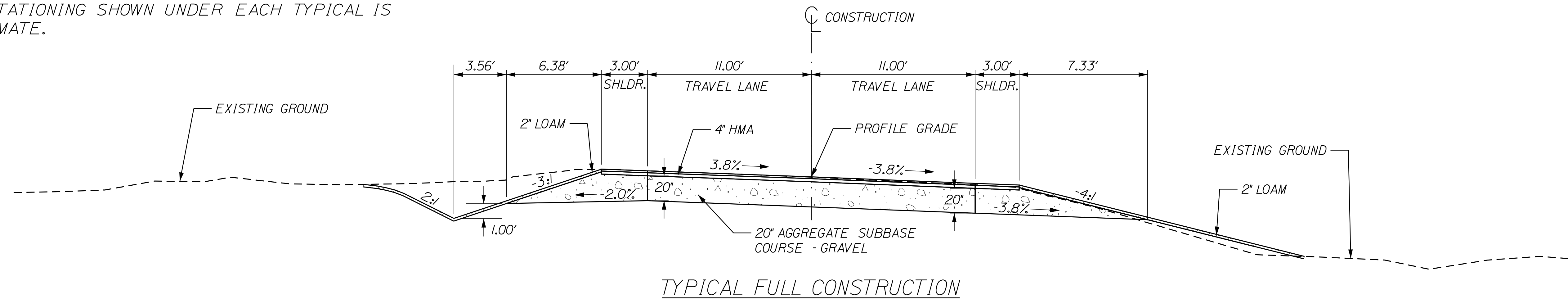
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.

3. CROSS SLOPES FOR BOTH NORMAL AND SUPERELEVATION SECTIONS SHALL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.

4. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2" LOAM OR DIRTY BORROW DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.

5. THE ALGEBRAIC DIFFERENCE BETWEEN TRAVELWAY AND SHOULDER CROSS SLOPE SHALL NOT EXCEED 8 PERCENT.

6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.



TYPICAL FULL CONSTRUCTION

ITEM 603.16 15" CULVERT PIPE OPTION I

| LOCATION | LENGTH |
|----------------|--------|
| STA. 12+75 LT. | 23 LF |
| STA. 13+34 LT. | 30 LF |

ITEM 603.40 81" SPAN X 59" RISE PIPE ARCH

| LOCATION | LENGTH |
|------------|--------|
| STA. 12+48 | 70 LF |

ITEM 610.08 PLAIN RIPRAP

| LOCATION | QTY. | DESCRIPTION |
|----------------|---------|---|
| STA. 12+46 RT. | 11.5 CY | INSLOPE AND PAD AT LARGE CULVERT INLET |
| STA. 12+50 LT. | 12.6 CY | INSLOPE AND PAD AT LARGE CULVERT OUTLET |

ITEM 613.319 EROSION CONTROL BLANKET

| | |
|------------------------------|------------------------------|
| STA. 12+63 TO STA. 12+69 LT. | STA. 12+75 TO STA. 13+65 RT. |
| STA. 12+89 TO STA. 13+16 LT. | |
| STA. 13+45 TO STA. 13+67 LT. | |

ITEM 620.58 EROSION CONTROL GEOTEXTILE

| LOCATION | QTY. | DESCRIPTION |
|----------------|---------|--------------------------------|
| STA. 12+46 RT. | 17.3 SY | TO BE PLACED UNDERNEATH RIPRAP |
| STA. 12+50 LT. | 18.9 SY | TO BE PLACED UNDERNEATH RIPRAP |

DRIVES AND ENTRANCES

| STATIONING | TYPE |
|-------------------|------------|
| STA. 12+18.10 LT. | GRAVEL DR. |
| STA. 12+74.50 LT. | GRAVEL DR. |
| STA. 13+33.73 LT. | GRAVEL DR. |

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2427300

WIN

024273.00

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

DATE

BY

R. BARROWS

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGNS-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE

BY

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGNS-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE

PENOBSCOT
ROUTE 166
MAINLINE TYPICAL &
CONSTRUCTION NOTES

SHEET NUMBER

2

OF 15

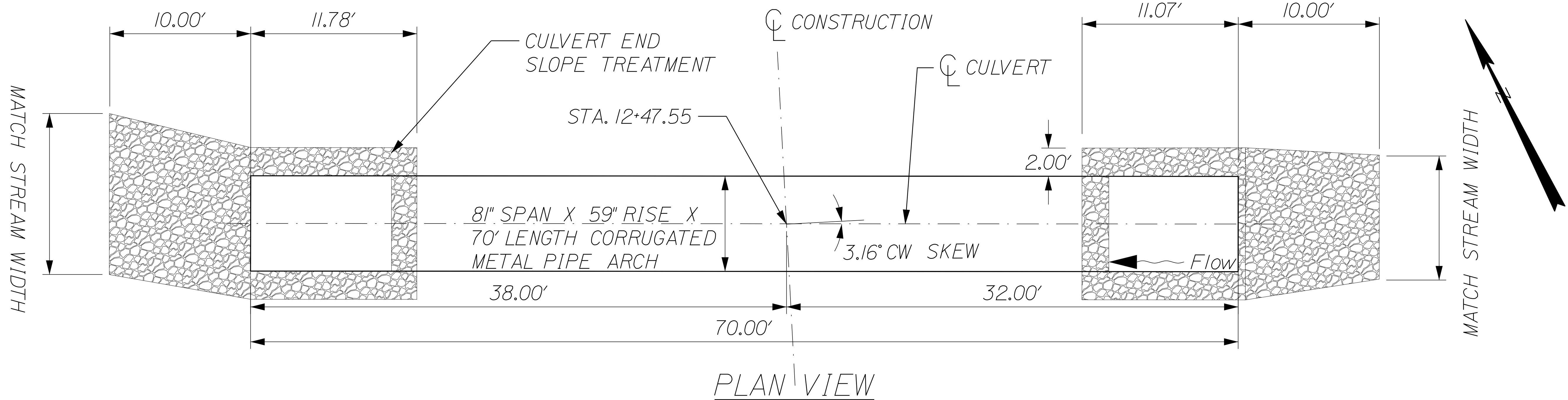
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Date: 12/16/2022

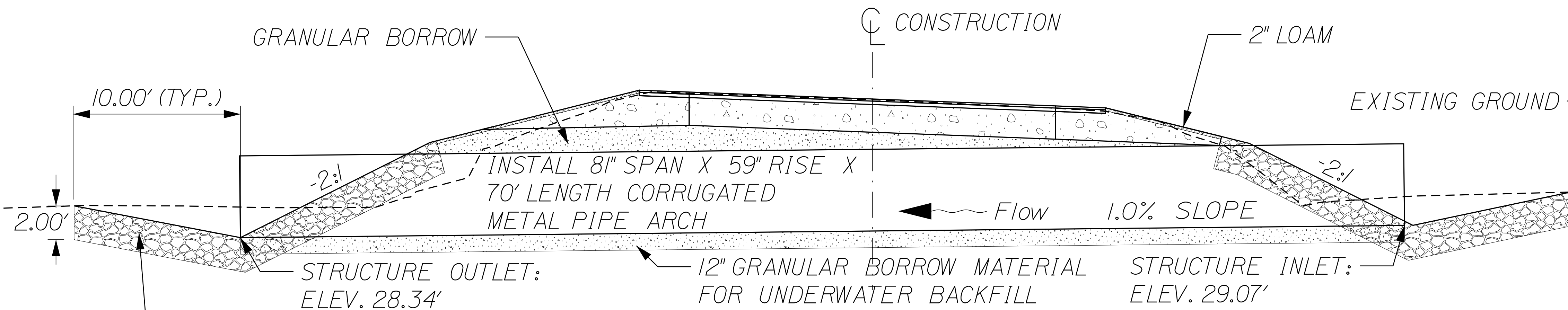
Username: Lucas.P.Soo

Division: HIGHWAY

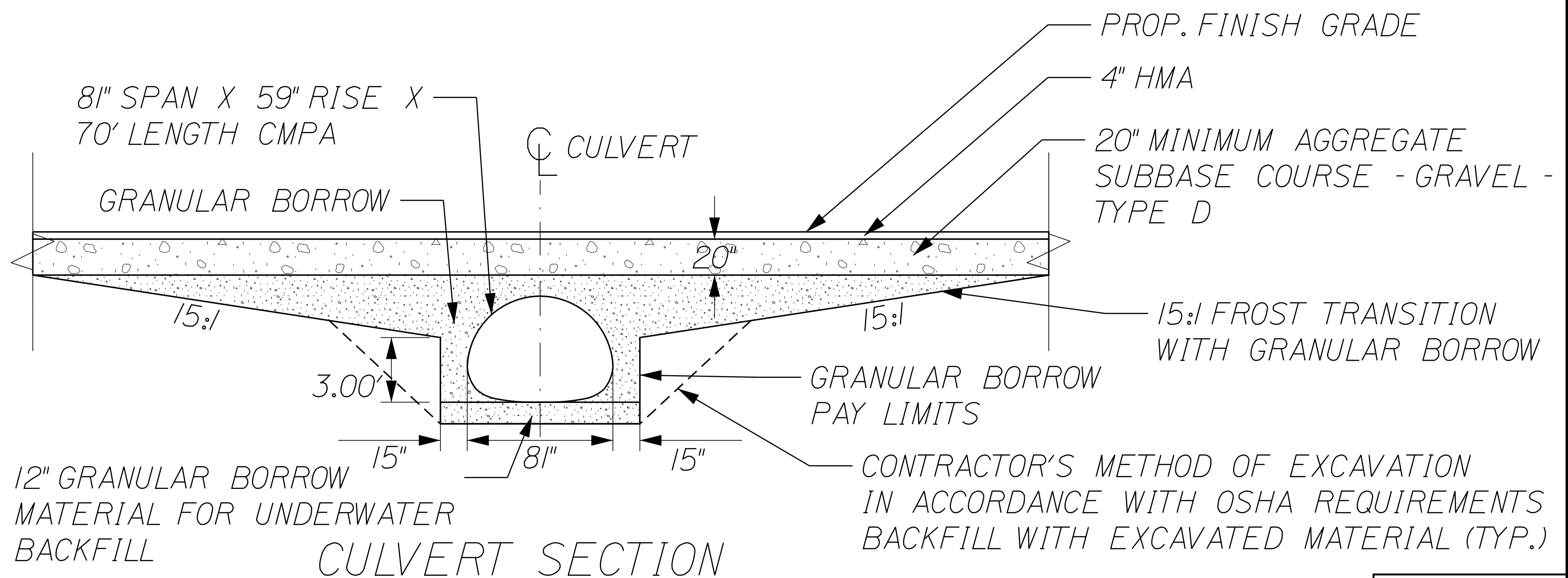
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PLAN VIEW



TRANSVERSE SECTION



CULVERT SECTION

NOTES

1. THE CULVERT SHALL BE BEDDED ON A 1-FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL MEETING THE REQUIREMENTS FOR UNDERWATER BACKFILL.
2. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE CULVERT TO ALLOW CONSTRUCTION OF THE CULVERT IN THE DRY.
3. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN AND PROFILE FOR LOCATIONS.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2427300
WIN 024273.00
HIGHWAY PLANS

| PROJ. MANAGER | R. BARROWS | BY | DATE |
|---------------|------------|--------|-----------|
| | | L. SOO | 5-25-2021 |

| DESIGN DETAILED | CHECKED/REVIEWED | DESIGN DETAILED | DESIGN DETAILED | REVISIONS 1 | REVISIONS 2 | REVISIONS 3 | REVISIONS 4 | FIELD CHANGES |
|-----------------|------------------|-----------------|-----------------|-------------|-------------|-------------|-------------|---------------|
| | | | | | | | | |

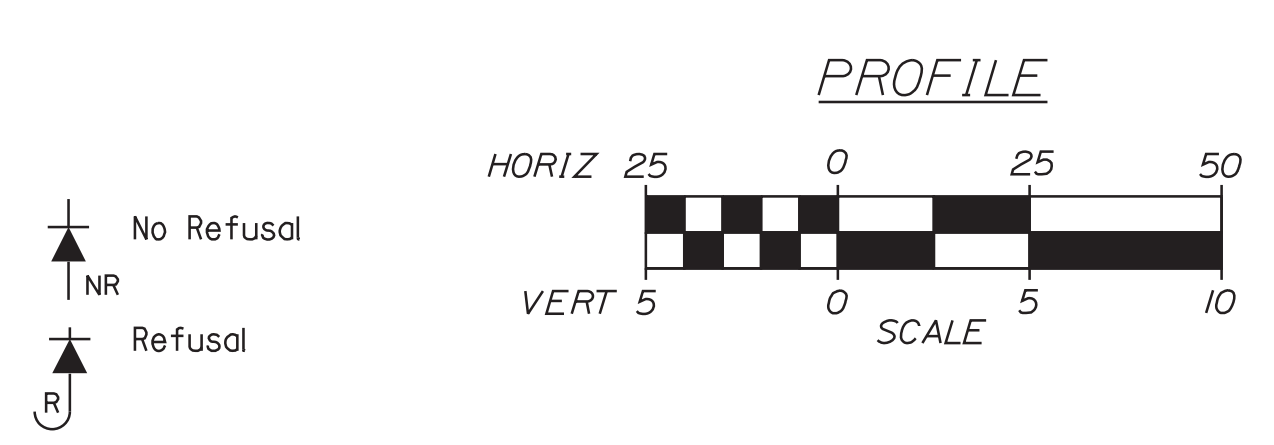
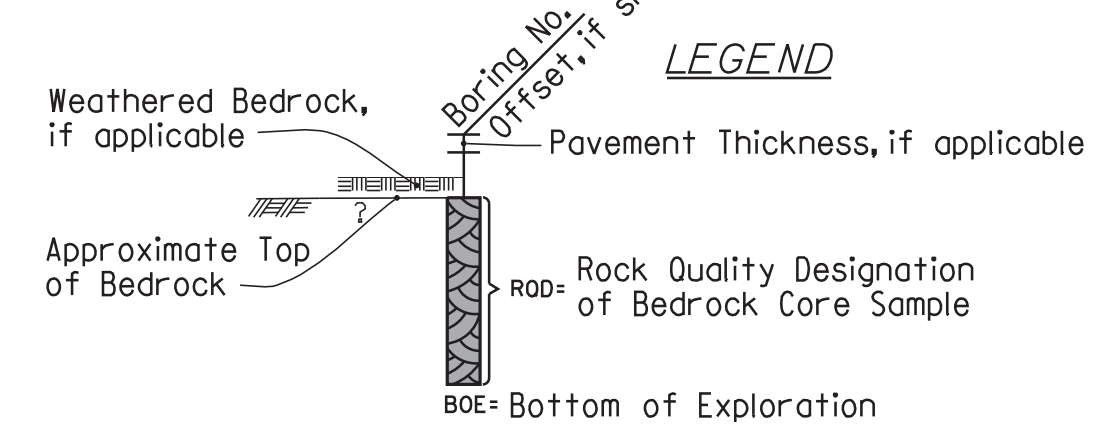
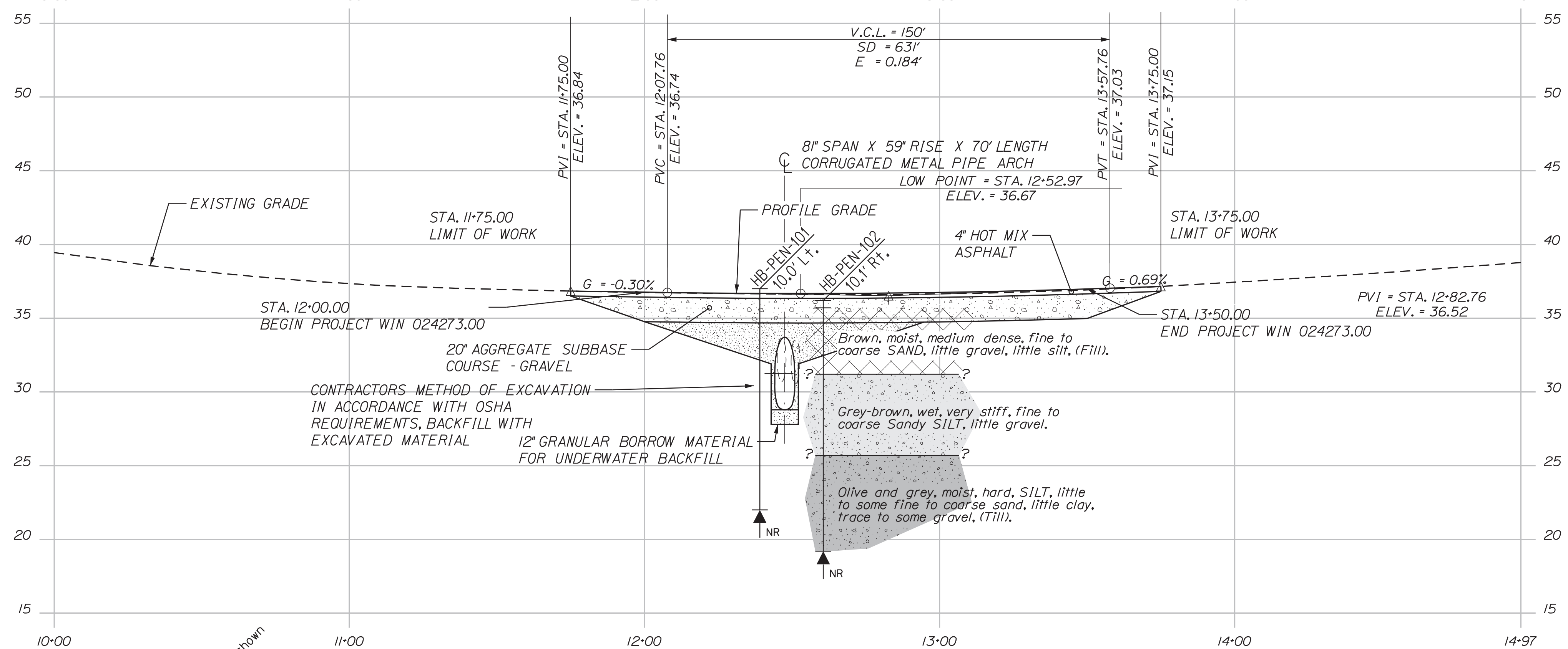
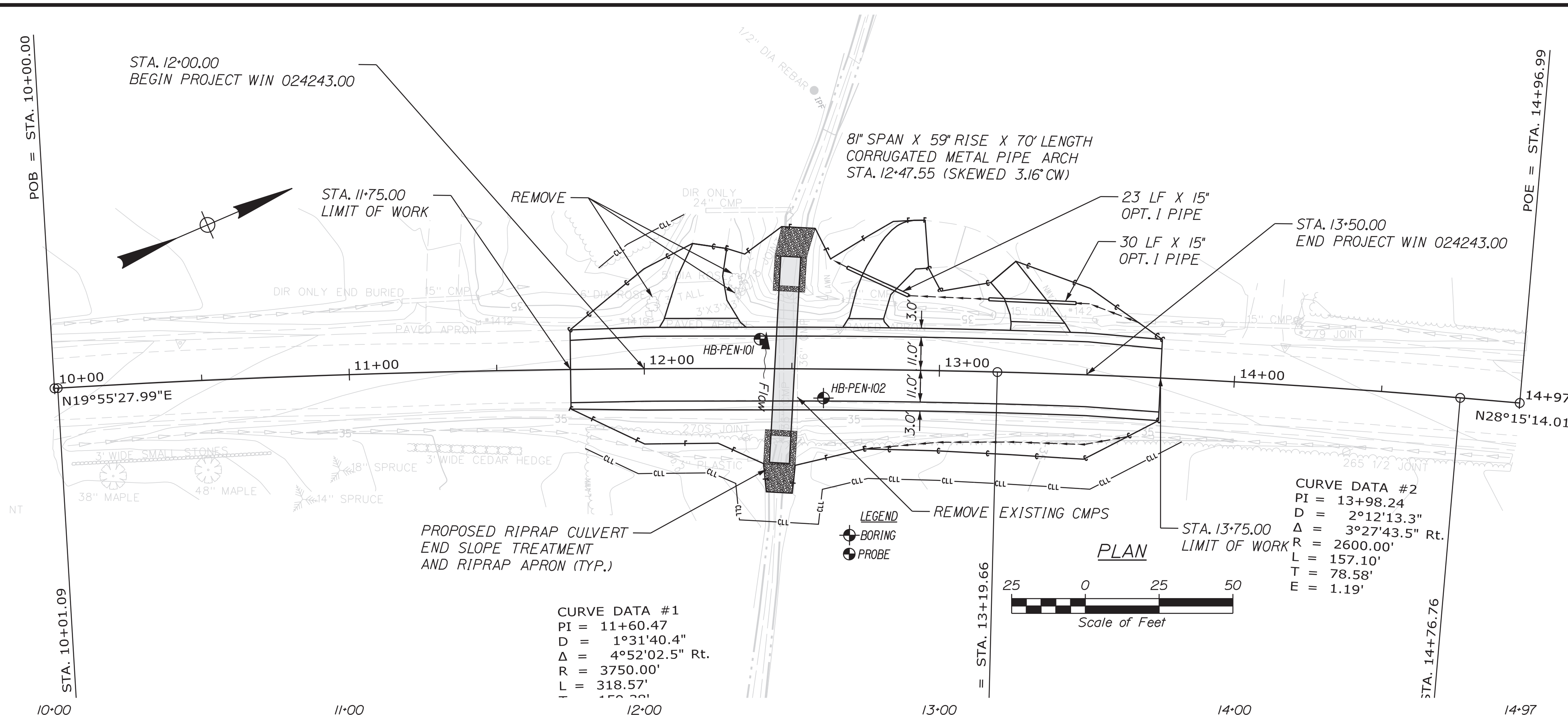
| SIGNATURE | P.E. NUMBER | DATE |
|-----------|-------------|------|
| | | |

PENOBSCOT
ROUTE 166
CULVERT DETAILS

SHEET NUMBER

3

OF 15



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.

| Maine Department of Transportation Soil/Bore Exploration Log US CUSTOMARY UNITS | | Project: Route 166 Large Culvert Location: Penobscot, Maine | | Boring No.: HB-PEN-101 | |
|---|------------|--|------------------|-------------------------------------|--|
| Drilling Contractor: Metredot | | Elevation (ft.): 37.0 | | Auger ID/OD: 5" Dia. | |
| Operator: Duggan/Westrock | | Datum: NAVD83 | | Sampler: Standard Split Spoon | |
| Logged By: B. W. Lader | | Rig Type: CME 45C | | Sampler Wt./Fall: N/A | |
| Date Start/Finish: 3/2/2021 09:00-12:00 | | Drilling Method: Solid Stem Auger | | Core Barrel: N/A | |
| Boring Location: 12+29.11, 10.0 ft Lt. | | Casing ID/OD: N/A | | Water Level: None Observed | |
| Sample Information | | | | | |
| Depth (ft.) | Sample No. | Pen./Rev. (ft.) | Core Depth (ft.) | Blow (1/8 in. Strength or RSD (ft)) | Visual Description and Remarks |
| 4 | | | | | Probe, similar soils as HB-PEN-102. |
| 5 | | | | | |
| 10 | | | | | |
| 15 | | | | | Bottom of Exploration at 15.0 feet below ground surface. |
| 20 | | | | | NO REFUSAL |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual. | | | | | |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made. | | | | | |

| Maine Department of Transportation Soil/Bore Exploration Log US CUSTOMARY UNITS | | Project: Route 166 Large Culvert Location: Penobscot, Maine | | Boring No.: HB-PEN-102 | | |
|---|------------|--|------------------|-------------------------------------|---|---|
| Driller: Metredot | | Elevation (ft.): 36.2 | | Auger ID/OD: 5" Dia. | | |
| Operator: Duggan/Westrock | | Datum: NAVD83 | | Sampler: Standard Split Spoon | | |
| Logged By: B. W. Lader | | Rig Type: CME 45C | | Sampler Wt./Fall: 100/30" | | |
| Date Start/Finish: 3/2/2021 09:00-12:00 | | Drilling Method: Solid Stem Auger | | Core Barrel: N/A | | |
| Boring Location: 12+40.45, 10.1 ft Rt. | | Casing ID/OD: N/A | | Water Level: None Observed | | |
| Sample Information | | | | | | |
| Depth (ft.) | Sample No. | Pen./Rev. (ft.) | Core Depth (ft.) | Blow (1/8 in. Strength or RSD (ft)) | Visual Description and Remarks | |
| 10 | 24/18 | 1.50 - 3.50 | 11/10/6/11 | 16 24 | E' H.M. 0-5 | |
| 5 | 20 | 24/20 | 5.00 - 11.00 | 11/6/6/10 | 12 18 | Wood from 4.5-5.0 ft bgs. |
| 10 | 30 | 24/20 | 10.00 - 32.00 | 8/15/17/20 | 30 44 | Grey-brown, wet, very stiff, fine to coarse sandy SILT, little gravel. |
| 15 | 40 | 24/15 | 15.00 - 17.00 | 11/27/31/23 | 58 86 | Olive, moist, hard, SILT, little clay, little fine to coarse sand, trace gravel, little silt. |
| 20 | | | | | Grey, moist, hard, SILT, some fine to coarse sand, some gravel, little clay, little silt. | |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual. | | | | | | |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made. | | | | | | |

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

2427300

WIN 24273.00

STATE OF MAINE
Cody A. Russell
15866
LICENSED PROFESSIONAL ENGINEER

DATE: 9/12/2022

BY: T. WHITE

PROJ. MANAGER: C. RUSSELL

DESIGN-REVIEWED: T. WHITE

DESIGN-DETAILED: C. RUSSELL

DESIGNS DET. CHECKED: C. RUSSELL

REVISIONS: 1

REVISIONS: 2

REVISIONS: 3

REVISIONS: 4

FIELD CHANGES

PENOBSCOT ROUTE 166

BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE WITH BORING LOGS

SHEET NUMBER

4

OF 15

| ESTIMATED QUANTITIES | | | |
|----------------------|--|----------|------|
| ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
| 203.20 | COMMON EXCAVATION | 530 | CY |
| 203.2318 | DISPOSAL OF SPECIAL WASTE | 21 | T |
| 203.25 | GRANULAR BORROW | 240 | CY |
| 206.14 | SPECIAL BACKFILL | 5 | CY |
| 304.10 | AGGREGATE SUBBASE COURSE - GRAVEL | 460 | CY |
| 403.208 | HOT MIX ASPHALT 12.5 mm HMA SURFACE | 60 | T |
| 403.209 | HOT MIX ASPHALT 9.5 mm (INCIDENTALS) | 3 | T |
| 403.213 | HOT MIX ASPHALT 12.5 mm BASE | 90 | T |
| 409.15 | BITUMINOUS TACK COAT - APPLIED | 40 | G |
| 511.07 | COFFERDAM: UPSTREAM | 1 | LS |
| 511.07 | COFFERDAM: DOWNSTREAM | 1 | LS |
| 603.16 | 15" CULVERT PIPE OPTION 1 | 60 | LF |
| 603.40 | 8" SPAN X 59" RISE PIPE ARCH | 70 | LF |
| 610.08 | PLAIN RIPRAP | 30 | CY |
| 613.319 | EROSION CONTROL BLANKET | 70 | SY |
| 615.07 | LOAM | 35 | CY |
| 618.14 | SEEDING METHOD NUMBER 2 | 5 | UN |
| 619.12 | MULCH | 5 | UN |
| 620.58 | EROSION CONTROL GEOTEXTILE | 40 | SY |
| 627.733 | 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE | 600 | LF |
| 629.05 | HAND LABOR, STRAIGHT TIME | 10 | HR |
| 631.12 | ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR) | 10 | HR |
| 631.172 | TRUCK - LARGE (INCLUDING OPERATOR) | 10 | HR |
| 652.312 | TYPE III BARRICADE | 7 | EA |
| 652.33 | DRUM | 30 | EA |
| 652.34 | CONE | 30 | EA |
| 652.35 | CONSTRUCTION SIGNS | 680 | SF |
| 652.36 | MAINTENANCE OF TRAFFIC CONTROL DEVICES | 30 | CD |
| 652.38 | FLAGGER | 300 | HR |
| 652.41 | PORTABLE CHANGEABLE MESSAGE SIGN | 2 | EA |
| 656.75 | TEMPORARY SOIL EROSION & WATER POLLUTION CONTROL | 1 | LS |
| 659.10 | MOBILIZATION | 1 | LS |

| | |
|---|--|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2427300 WIN 024273.00 HIGHWAY PLANS | PENOBSCOT ROUTE 166 ESTIMATED QUANTITIES |
| SHEET NUMBER 5 OF 15 | DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES |
| DATE 8-15-2022 | BY L. SOO |
| R. BARROWS | SIGNATURE P.E. NUMBER DATE |

GENERAL NOTES

1. Clearing limits shall be 10 feet beyond and parallel to the construction slope lines or as shown on the Plans unless otherwise authorized by the Resident.
2. All clearing shall be considered incidental to the Contract and no separate payment will be made. The actual lines for clearing shall be established in the field by the Contractor as indicated on the Plans and approved by the Resident.
3. The clearing and selective clearing and thinning lines shown on the Plans are for estimating purposes only. The actual lines for clearing and thinning shall be established in the field by the Contractor and approved by the Resident.
4. Grubbing in fill areas has been shown on the cross sections and the quantities noted. These limits are approximate and have been used for estimating purposes only. Actual grubbing limits may vary based on field conditions as directed by the Resident.
5. All inslope and ditches in cut areas shall be graded as shown on the typical or flatter, or as directed by the Resident.
6. The Contractor shall plan and conduct work so that upon completion of the project there is no drop-off from the edge of the shoulder pavement.
7. Driveway fill side slopes shall be the same as the fill side slopes without guardrail unless otherwise noted on the Plans.
8. All waste material not used on the project shall be disposed of off the project in acceptable waste areas reviewed by the Resident. Grading, seeding and mulching of waste areas shall be considered incidental.
9. Required ditch protection shown on the Plans or in the Construction Notes is for estimating purposes only. The actual type and location of ditch protection may be altered by the Resident.
10. Granular borrow used to backfill muck excavation or in low wet areas to 1 foot above water level or old ground shall meet requirements for granular borrow material for underwater backfill as specified in Standard Specifications Item 703.19, Granular Borrow.
11. Existing inslopes in proposed fill areas shall be benched by excavating steps of sufficient width to permit placing and compacting the fill material along with the material removed.
12. Gravel entrances shall be constructed with 14 inches of aggregate subbase course gravel or 11 inches of aggregate subbase course gravel and 3 inches of untreated aggregate surface course unless otherwise noted in the Plans or directed by the Resident.
13. A 3-foot paved lip shall be placed at all unpaved entrances unless otherwise noted in the Plans or directed by the Resident.
14. No existing drainage shall be abandoned, removed or plugged without prior approval of the Resident.
15. Inlets and outlets of all culverts shall be ripped unless otherwise noted on the Plans or directed by the Resident.
16. Existing abandoned water mains broken by the Contractor during construction shall have the ends plugged with brick and mortar. Cost for all labor and material will be considered incidental to the Contract and no direct payment will be made.
17. Loam has been estimated for disturbed lawn areas. Actual placement of the loam shall be as noted on the Plans or designated by the Resident.
18. Unless otherwise noted Seeding Method No. 1 shall be utilized on all lawns and developed areas; Seeding Method No. 2 shall be utilized on all other areas.
19. Loam shall be placed to a nominal depth of 4 inches in lawn areas and 2 inches in all other areas unless otherwise noted or directed.
20. The Contractor will be responsible for maintaining all existing mailboxes to ensure that the mail will be deliverable. Payment for this work will be considered incidental to the contract.
21. The Contractor will be responsible for maintaining all existing operational business directional signs (OBDS) to ensure that they are visible to the traveling public. Payment for this work will be considered incidental to the contract.
22. Any damage to the slopes caused by the Contractor's equipment, personnel, or operation shall be repaired to the satisfaction of the Resident. All work, equipment, and materials required to make repairs shall be at the Contractor's expense.
23. The Project geotechnical report titled Geotechnical Design Report for the Replacement of Large Culvert #988887, Soils Report 2022-25, 9/16/2022 can be accessed at the MaineDOT website <http://www.maine.gov/mdot/contractors/>.
24. Geotechnical information furnished or referred to in the bid documents is for the use of the bidders. No assurance is given that the information or interpretations will be representative of the actual subsurface conditions throughout the construction site. MaineDOT will not be responsible for any interpretations or conclusions drawn from the geotechnical information. The boring logs provided in the bid documents (if any) present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between boring locations.
25. Areas on the project requiring fill will come from suitable sites such as excavation, ditch and inslope or equipment rental areas.
26. Estimated quantities for required structural earth excavation, drainage and minor structures are informational only and represent the approximate minimum quantity required to install drainage structures. Additional excavation for the Contractor's convenience or to comply with backsloping requirements will not be paid for directly but will be considered incidental to the related drainage items.

27. No separate payment for superintendent or foreman will be made for the supervision of equipment and layout of work being paid for under the equipment rental items.
28. $\frac{1}{32}$ Undetermined locations $\frac{1}{32}$ shall be determined by the Resident.
29. Final striping for the project shall be done by the Contractor per the striping layout in the Contract documents or as provided by the Department. Payment shall be made under appropriate Contract items.
30. The Contractor will place appropriately-marked stakes at the following locations on the project: striping pattern changes, cross-slope changes, and every 500 feet for stationing. The Contractor will paint every full station (100 feet) on the existing roadway and will transfer the painted stationing through all intermediate lifts (not surface). Appropriately-sized striping pattern changes will be painted on surface. Stationing control must be placed before work can commence. Cross-slope and striping change controls must be placed before paving can commence.
31. All HMA for patching around adjusted, altered, or rebuilt utility structures shall be a 9.5 mm or 12.5 mm MaineDOT approved mix design. Excluding water and gas gate valves, the Contractor shall saw cut the existing pavement for the patch at least two feet away from the nearest edge of the structure. The Contractor shall place HMA in lifts of 2 inches or less to match the existing pavement depth or a maximum of 6 inches, as directed by the Resident, and compact the HMA using a minimum of a 150-pound plate compactor. HMA for patching around adjusted, altered, or rebuilt utility structures is considered incidental to the respective pay item for adjust, alter, or rebuild utility structure.

Date: 12/16/2022

Username: Lucas.P.Soo

Division: HIGHWAY

Filename: ... \MSTA\006_GeneralNotes.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2427300

WIN
024273.00

HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

| | | | |
|------------------|------------|--------|-----------|
| PROJ. MANAGER | R. BARROWS | BY | DATE |
| DESIGN-DETAILED | L. SOO | L. SOO | 8-15-2022 |
| CHECKED-REVIEWED | | | |
| DESIGN-DETAILED | | | |
| DESIGN-DETAILED | | | |
| REVISIONS 1 | | | |
| REVISIONS 2 | | | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |

PENOBSCOT
ROUTE 166

GENERAL NOTES

SHEET NUMBER

6

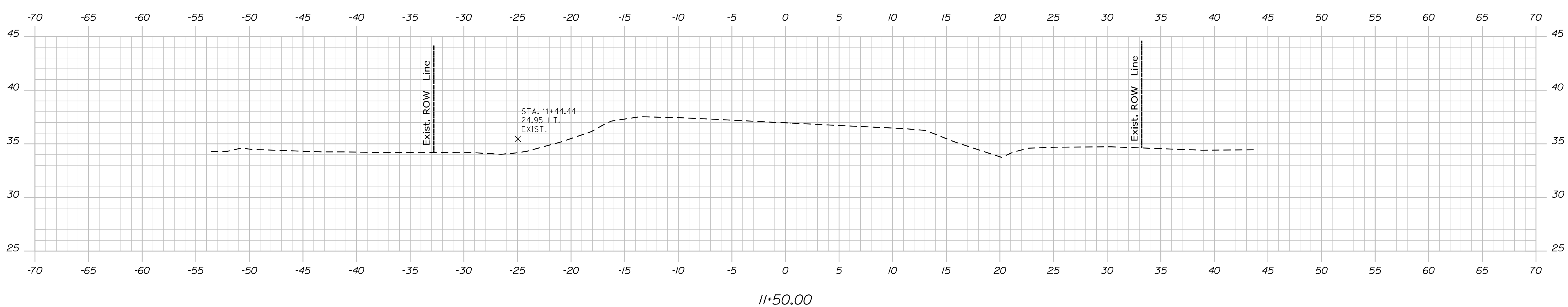
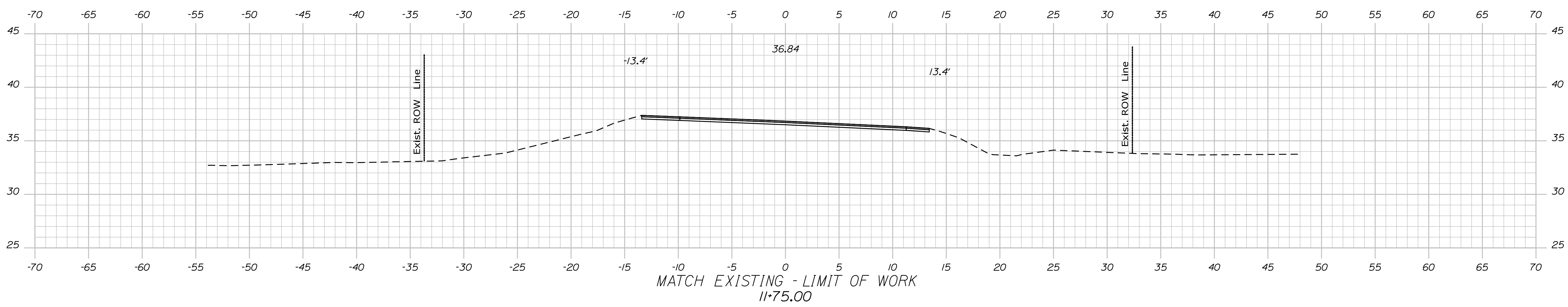
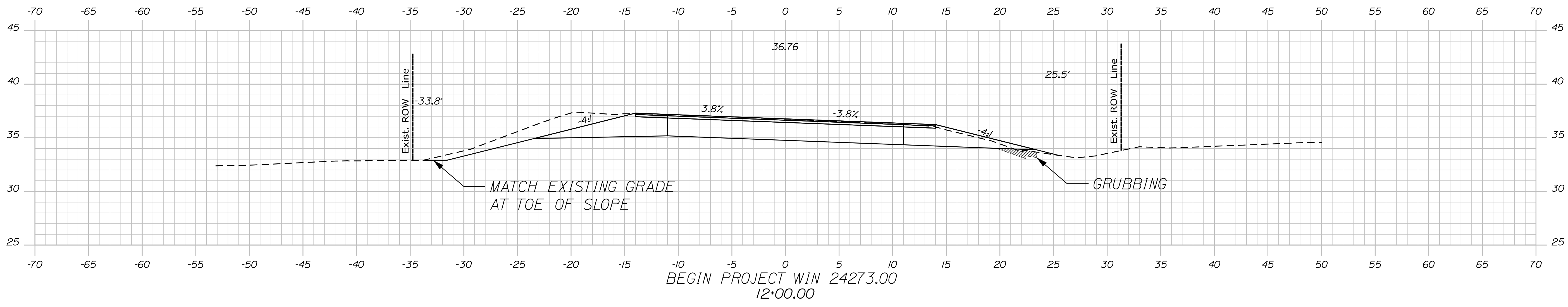
OF 15

Date: 12/16/2022

Username: Lucas.P.Soo

Division: HIGHWAY

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2427300
WIN 024273.00
HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

| PROJ. MANAGER | R. BARROWS | BY | DATE |
|------------------|------------|--------|-----------|
| DESIGN DETAILED | L. SOO | L. SOO | 5-25-2021 |
| CHECKED-REVIEWED | | | |
| DESIGN DETAILED | | | |
| DESIGN DETAILED | | | |
| REVISIONS 1 | | | |
| REVISIONS 2 | | | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |

PENOBSCOT
ROUTE 166
CROSS SECTIONS

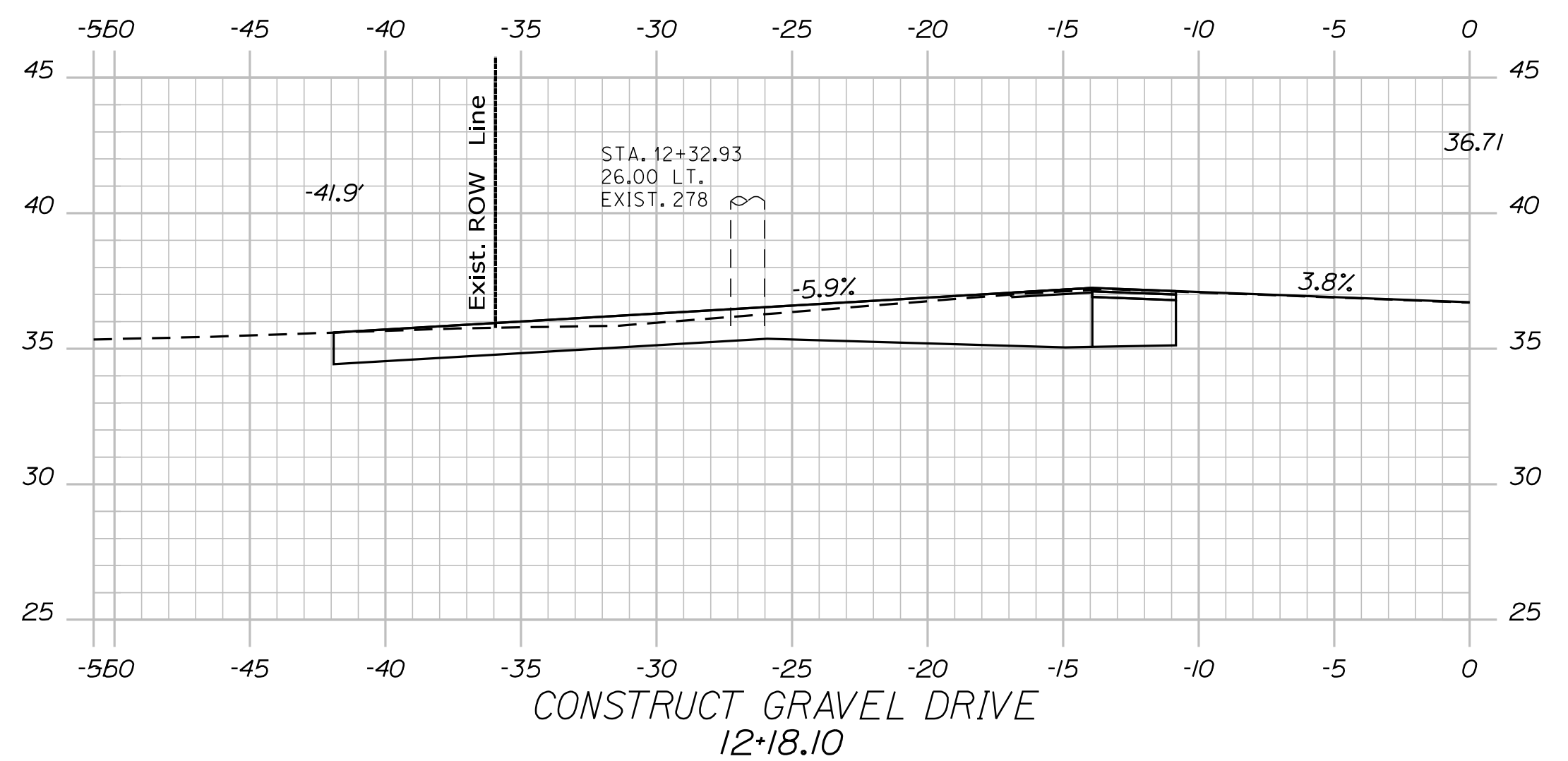
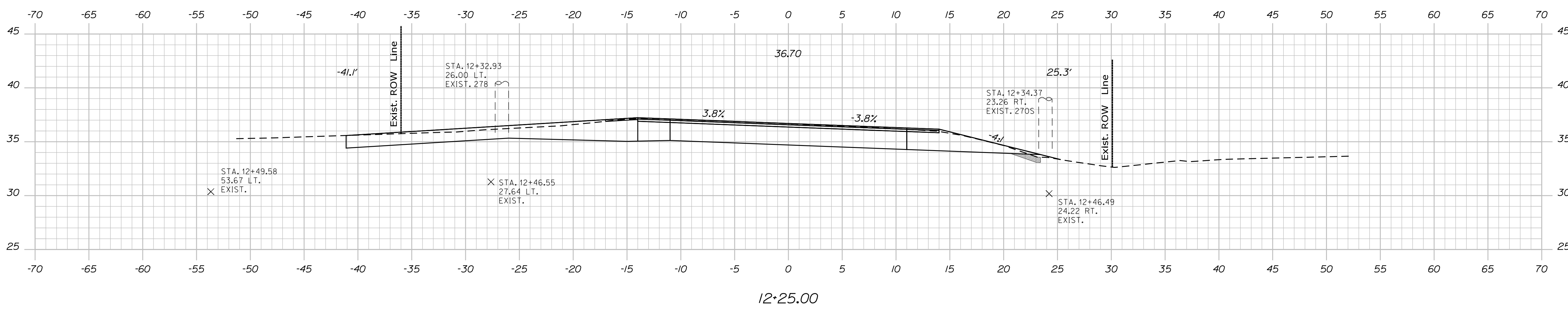
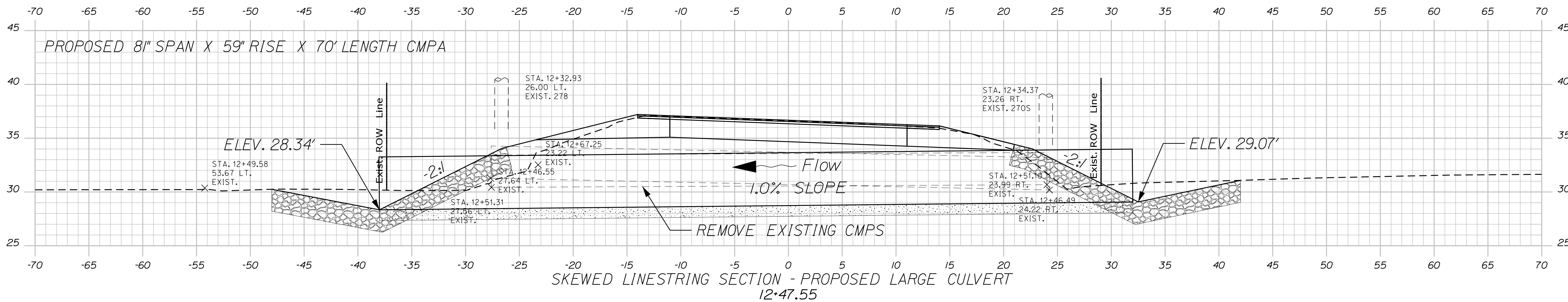
SHEET NUMBER
8
OF 15

Date: 12/16/2022

Username: Lucas.P.Soo

Division: HIGHWAY

Filename: ... \009_XSECT_12*18 to 12*48.dgn

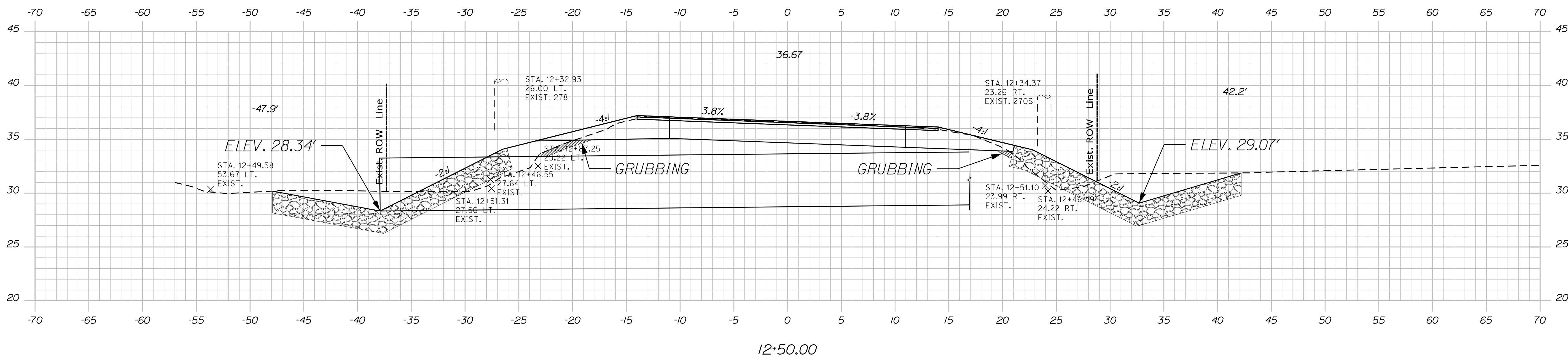
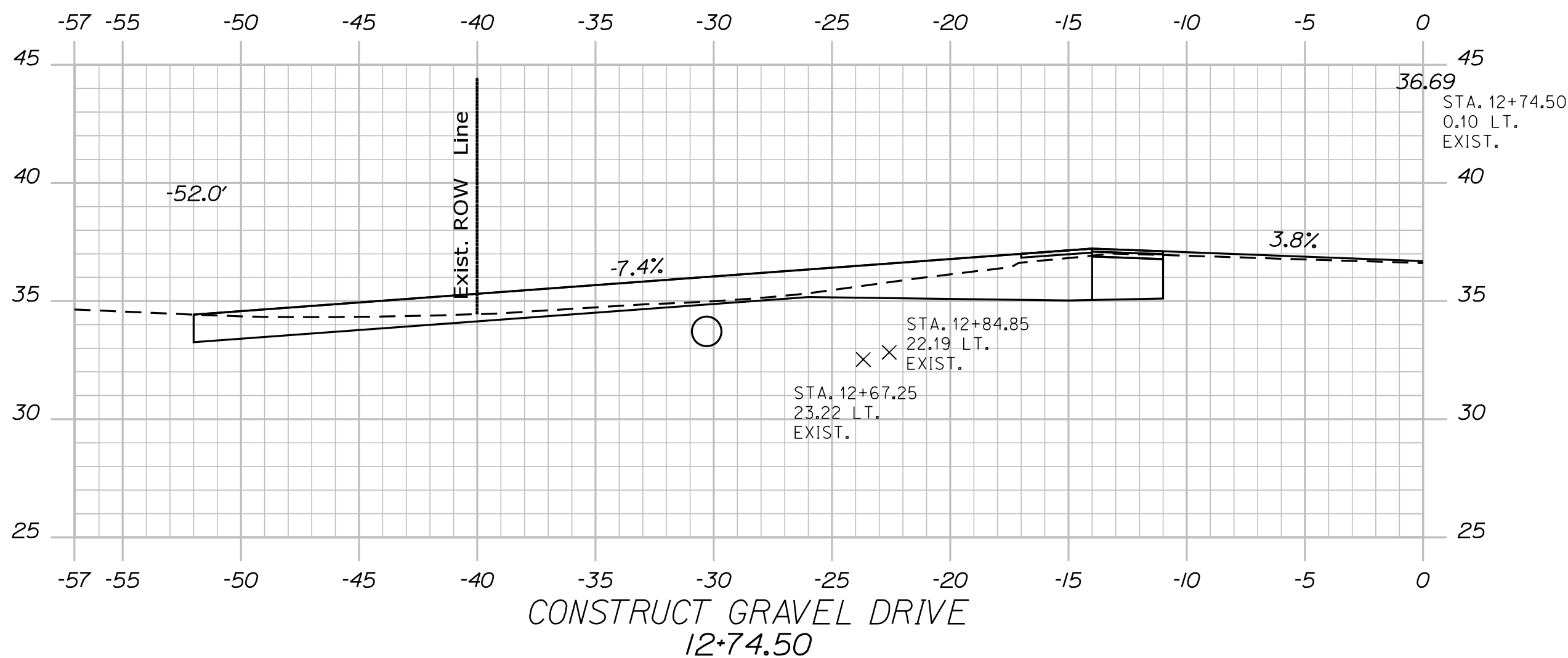
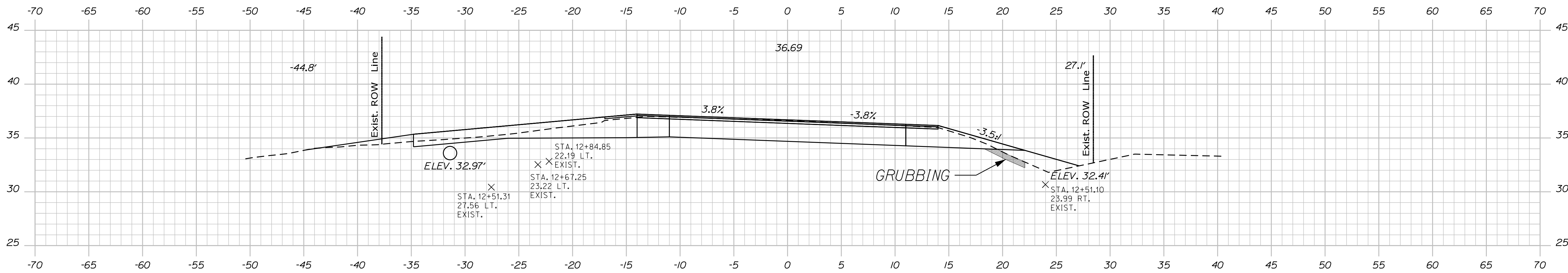


| | | | | |
|--|------------------|-------------------|------------------|---------------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | | 2427300 | WIN 024273.00 | HIGHWAY PLANS |
| | SIGNATURE | P.E. NUMBER | DATE | |
| | BY L. SOO | DATE 5-25-2021 | | |
| | DESIGN DETAILED | | | |
| | CHECKED/REVIEWED | | | |
| | DESIGN DETAILED | | | |
| | DESIGN DETAILED | | | |
| | REVISIONS 1 | | | |
| | REVISIONS 2 | | | |
| | REVISIONS 3 | | | |
| | REVISIONS 4 | | | |
| | FIELD CHANGES | | | |
| PENOBSCOT ROUTE 166 | | CROSS SECTIONS | | |
| SHEET NUMBER | | | | |
| 9 | | | | |
| OF 15 | | | | |

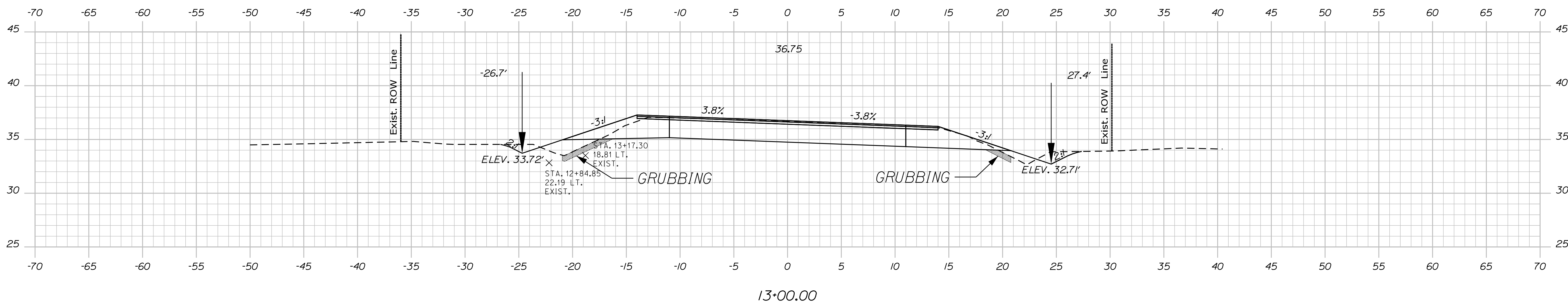
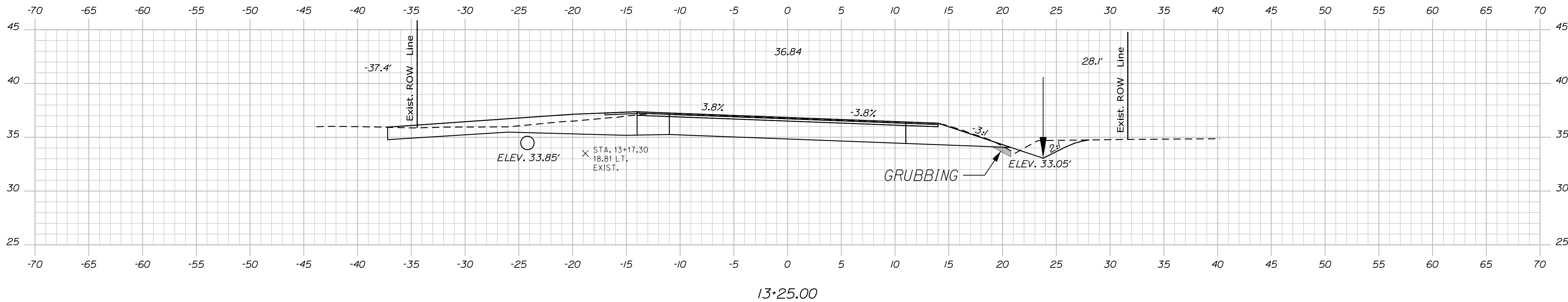
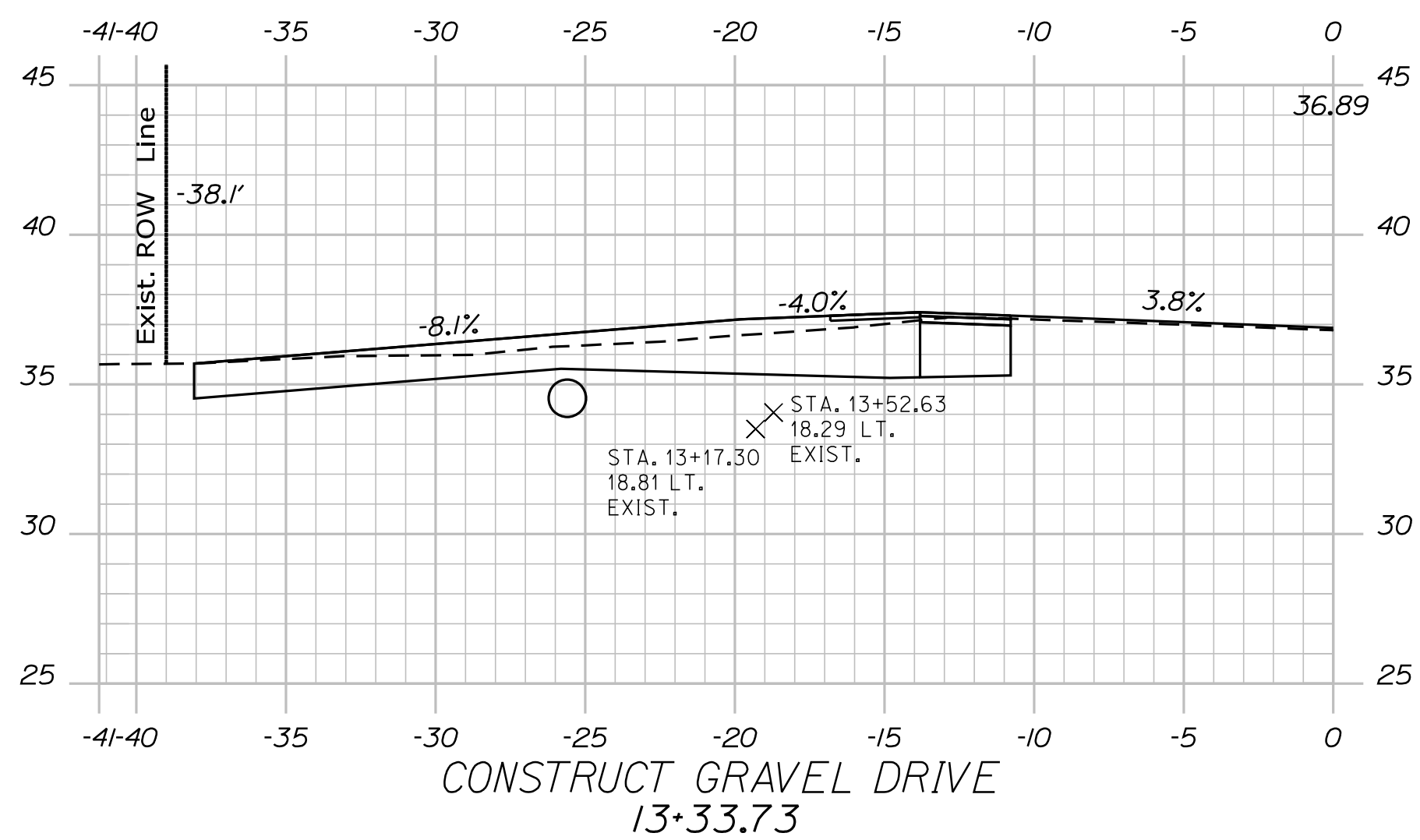
Date: 12/16/2022

Username: Lucas.P.Soo

Division: HIGHWAY



| | | | |
|--|------------|------------------|-----------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | | 2427300 | |
| | | WIN 024273.00 | |
| | | HIGHWAY PLANS | |
| PROJ. MANAGER | R. BARROWS | BY | L. SOO |
| CHECKED/REVIEWED | | DATE | 5-25-2021 |
| DESIGNS/DETAILED | | SIGNATURE | |
| REVISIONS 1 | | P.E. NUMBER | |
| REVISIONS 2 | | DATE | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |
| PENOBSCOT ROUTE 166 | | CROSS SECTIONS | |
| SHEET NUMBER | | 10 | |
| | | OF 15 | |



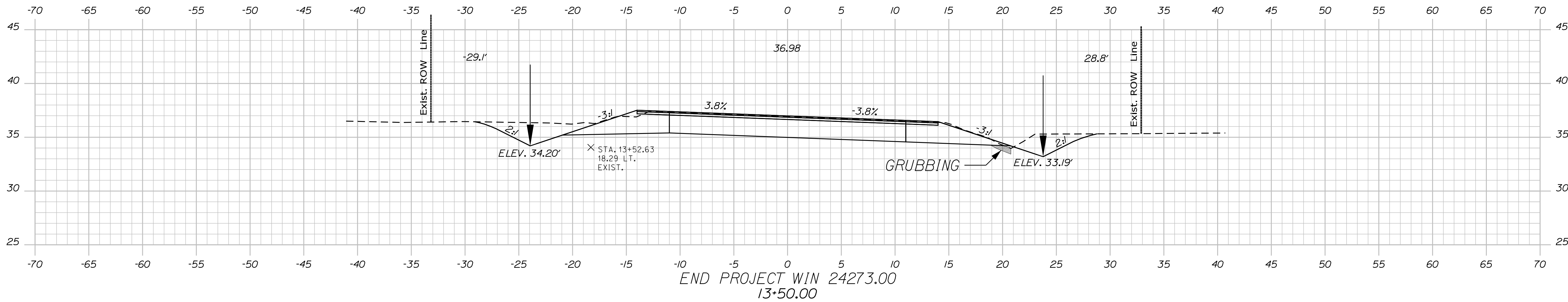
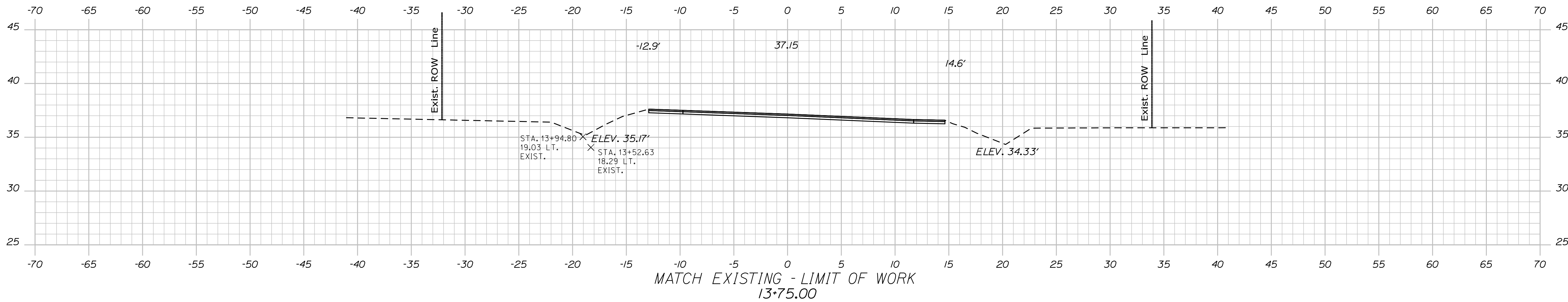
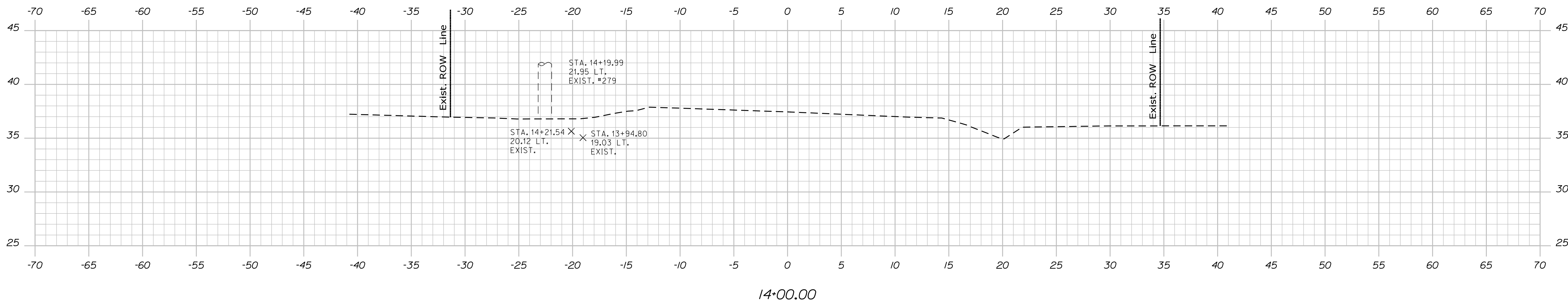
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|--|--------|----------------|--|------------------|--|---------------|--|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | | 2427300 | | WIN 024273.00 | | HIGHWAY PLANS | |
| SIGNATURE | | P.E. NUMBER | | DATE | | | |
| PROJ. MANAGER | BY | DATE | | | | | |
| DESIGN-DETAILED | L. SOO | 5-25-2021 | | | | | |
| CHECKED-REVIEWED | | | | | | | |
| DESIGN-DETAILED | | | | | | | |
| DESIGN-DETAILED | | | | | | | |
| REVISIONS 1 | | | | | | | |
| REVISIONS 2 | | | | | | | |
| REVISIONS 3 | | | | | | | |
| REVISIONS 4 | | | | | | | |
| FIELD CHANGES | | | | | | | |
| PENOBSCOT ROUTE 166 | | CROSS SECTIONS | | | | | |
| SHEET NUMBER | | 11 | | | | | |
| | | OF 15 | | | | | |

Date: 12/16/2022

Username: Lucas.P.Soo

Division: HIGHWAY

Filename: ... \012_XSECT_13+50 to 14+00.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2427300
WIN 024273.00
HIGHWAY PLANS

DESIGN-DETAILED
CHECKED-REVIEWED
DESIGN-DETAILED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

PROJ. MANAGER
R. BARROWS
BY
L. SOO
DATE
8-15-2022

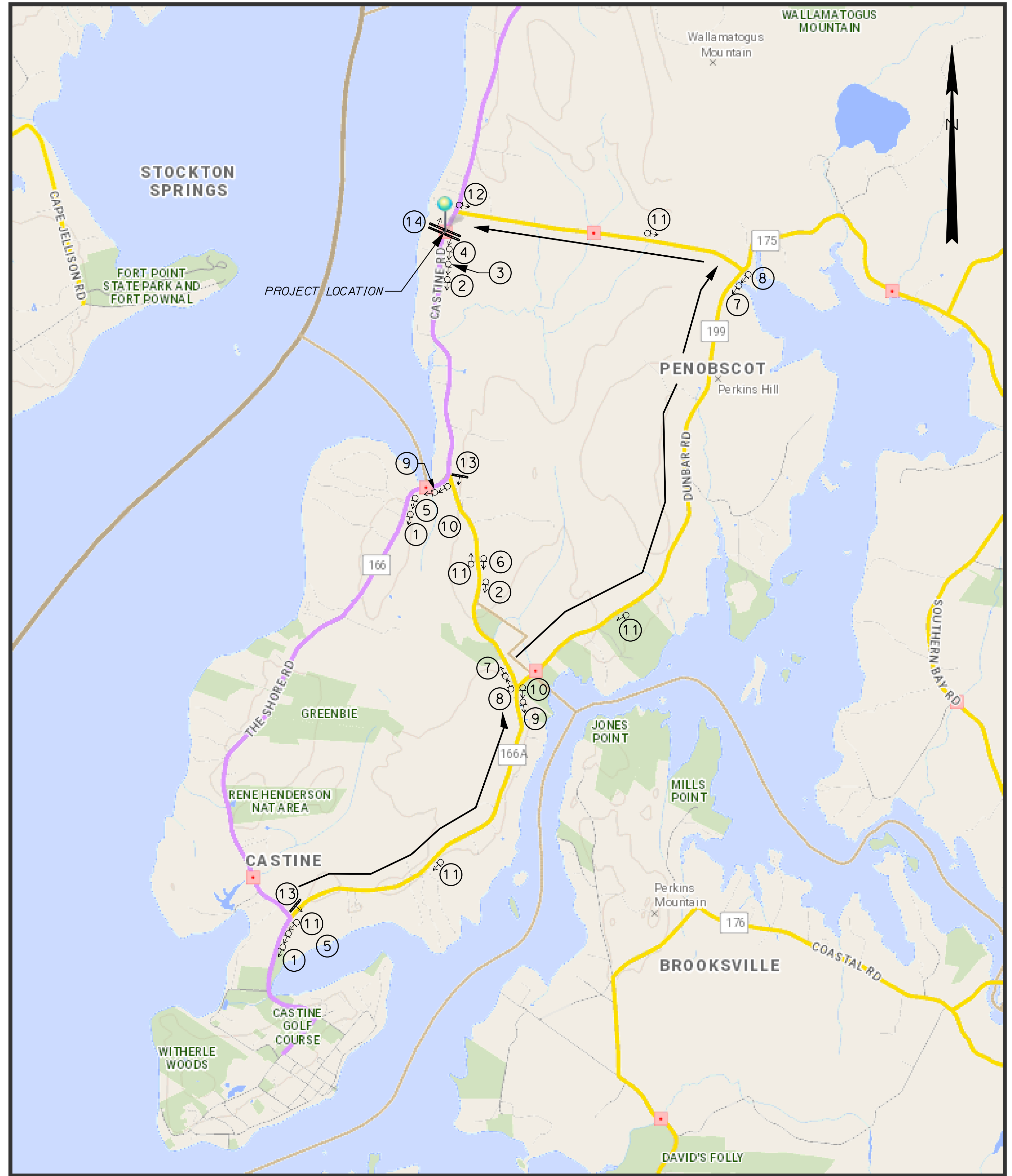
PENOBSCOT
ROUTE 166
CROSS SECTIONS

SHEET NUMBER
12
OF 15

DETOUR NOTES:

1. COVER ALL CONFLICTING ROUTE SIGNS.
2. SIGN NUMBER 14 TO BE PLACED IN THE RIGHT SHOULDER ON ROUTE 166.
3. 26 SIGN LOCATIONS USED FOR NORTHBOUND DIRECTION (SEE BREAKDOWN BELOW).
4. (2) TYPE 3 BARRICADES SHALL BE USED AT LOCATION 14.

PENOBSCOT LARGE CULVERT (WIN 24273.00)



| | |
|---|---|
| <p>① (2 EA) </p> <p>② (2 EA) </p> <p>③ (1 EA) </p> <p>④ (1 EA) </p> <p>⑤ (2 EA) </p> <p>⑥ (1 EA) </p> <p>⑦ (2 EA) </p> <p>⑧ (2 EA) </p> | <p>⑨ (2 EA) </p> <p>⑩ (2 EA) </p> <p>⑪ (5 EA) </p> <p>⑫ (1 EA) </p> <p>⑬ (2 EA) </p> <p>⑭ (1 EA) </p> |
|---|---|

The Maine Department of Transportation provides this publication for information only. Reliance upon this information is at user risk. It is subject to revision and may be incomplete depending upon changing conditions. The Department assumes no liability if injuries or damages result from this information. This map is not intended to support emergency dispatch.

1 Miles
1 inch = 1.19 miles

Date: 6/24/2021
Time: 10:29:24 AM

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2427300
WIN
024273.00
HIGHWAY PLANS

| PROJ. MANAGER | R. BARROWS | BY | DATE | SIGNATURE | P.E. NUMBER | DATE |
|-------------------|------------|----|-----------|-----------|-------------|------|
| DESIGNED/DETAILED | L. SOO | | 6-25-2021 | | | |
| CHECKED/REVIEWED | | | | | | |
| DESIGNS/DETAILED | | | | | | |
| REVISIONS 1 | | | | | | |
| REVISIONS 2 | | | | | | |
| REVISIONS 3 | | | | | | |
| REVISIONS 4 | | | | | | |
| FIELD CHANGES | | | | | | |

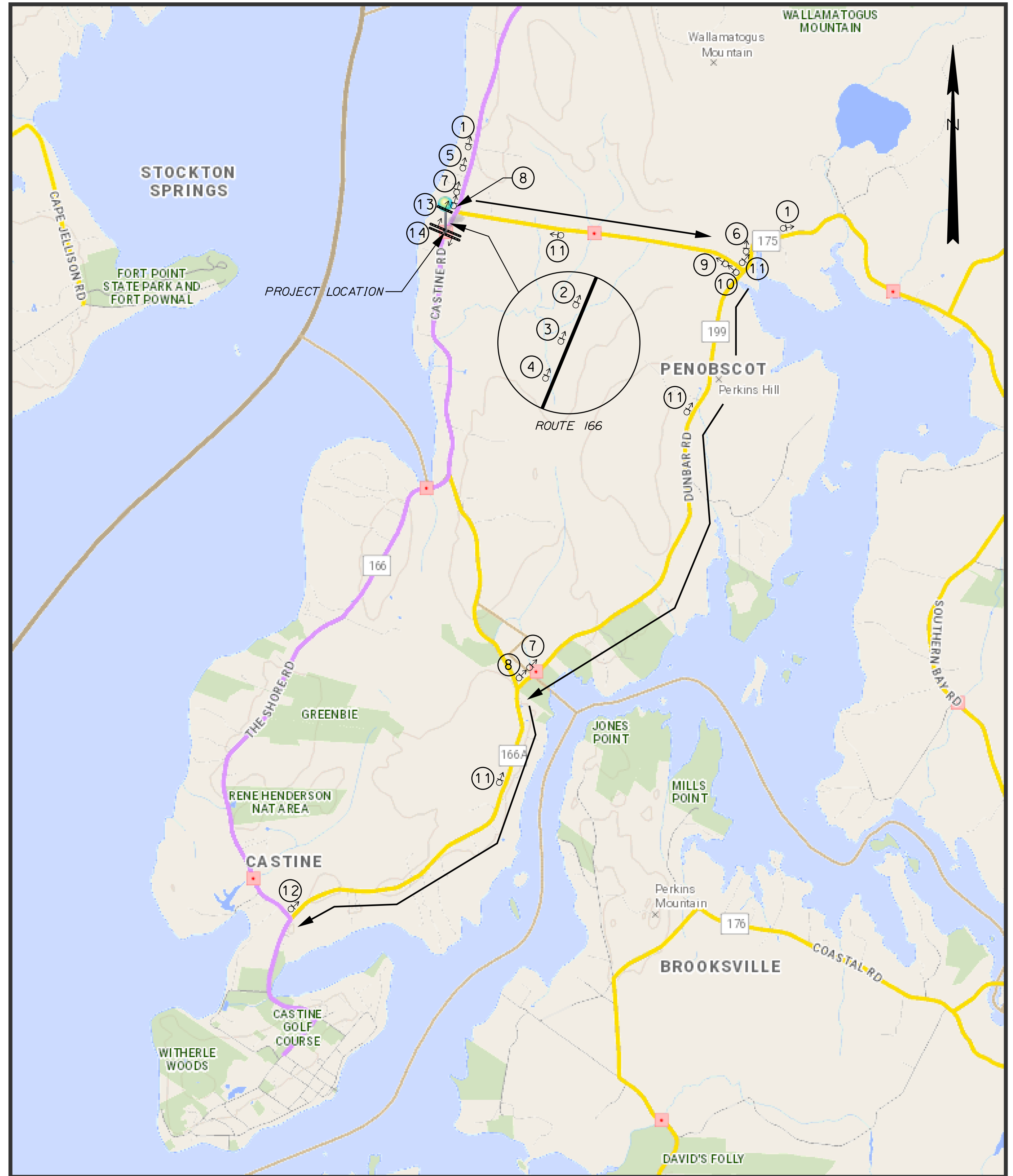
PENOBSCOT
ROUTE 166
DETOUR PLAN (NORTHBOUND)

SHEET NUMBER
13
OF 15

DETOUR NOTES:

1. COVER ALL CONFLICTING ROUTE SIGNS.
2. SIGN NUMBER 14 TO BE PLACED IN THE RIGHT SHOULDER ON ROUTE 166.
3. 20 SIGN LOCATIONS USED FOR SOUTHBOUND DIRECTION (SEE BREAKDOWN BELOW).
4. (2) TYPE 3 BARRICADES SHALL BE USED AT LOCATION 14.

PENOBSCOT LARGE CULVERT (WIN 24273.00)



The Maine Department of Transportation provides this publication for information only. Reliance upon this information is at user risk. It is subject to revision and may be incomplete depending upon changing conditions. The Department assumes no liability if injuries or damages result from this information. This map is not intended to support emergency dispatch.

1 Miles
1 inch = 1.19 miles

Date: 6/24/2021
Time: 10:29:24 AM

Date: 12/16/2022

Username: Lucas.P.Soo

Division: HIGHWAY

Filename: ... \014_Detour Plan (Southbound).dgn

| | |
|---|---|
| <p>① (2 EA) </p> <p>② (1 EA) </p> <p>③ (1 EA) </p> <p>④ (1 EA) </p> <p>⑤ (1 EA) </p> <p>⑥ (1 EA) </p> <p>⑦ (2 EA) </p> <p>⑧ (2 EA) </p> | <p>⑨ (1 EA) </p> <p>⑩ (1 EA) </p> <p>⑪ (4 EA) </p> <p>⑫ (1 EA) </p> <p>⑬ (1 EA) </p> <p>⑭ (1 EA) </p> |
|---|---|

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2427300
WIN 024273.00
HIGHWAY PLANS

| PROJ. MANAGER | R. BARROWS | BY | DATE | SIGNATURE | P.E. NUMBER | DATE |
|------------------|------------|----|-----------|-----------|-------------|------|
| DESIGN DETAILED | L. SOO | | 6-24-2021 | | | |
| CHECKED/REVIEWED | | | | | | |
| DESIGNS DETAILED | | | | | | |
| DESIGNS DETAILED | | | | | | |
| REVISIONS 1 | | | | | | |
| REVISIONS 2 | | | | | | |
| REVISIONS 3 | | | | | | |
| REVISIONS 4 | | | | | | |
| FIELD CHANGES | | | | | | |

PENOBSCOT
ROUTE 166
DETOUR PLAN (SOUTHBOUND)

SHEET NUMBER
14
OF 15

| | |
|-----------------------------|----------------|
| Town, County, State | _____ |
| Approx. Property Lines | P.L. _____ |
| Existing Right of Way | _____ |
| Limits of Wrought Portion | L.O.W.P. _____ |
| Control Of Access | C.O.A. _____ |
| New Right of Way | _____ |
| New Easement | _____ |
| New Temporary Rights | _____ |
| New R/W Within Existing R/W | _____ |

| | | | | | | | | | | |
|------------|--------------------|---------------------|-----------------|----------|----------|---------------|----------|----------|---------------------|-----------|
| New R/W | Along Existing R/W | Clearing Limit Line | Sanitary Sewer | Existing | Proposed | Traveled Way | Existing | Proposed | Cut Line | Fill Line |
| Building | _____ | _____ | Telephone Line | _____ | _____ | Ditch | _____ | _____ | Stonewall | _____ |
| Trees | Conifer | Deciduous | Electric Line | _____ | _____ | Catch Basin | _____ | _____ | Baseline | _____ |
| Tree Line | _____ | _____ | Water Line | _____ | _____ | Manhole | _____ | _____ | Monument | _____ |
| Water Edge | _____ | _____ | Underdrain Line | _____ | _____ | Sewer Manhole | _____ | _____ | Iron Rod Found | _____ |
| Ledge | _____ | Rock/Boulder | Gas Line | _____ | _____ | Utility Pole | _____ | _____ | Replacement Pin Set | _____ |
| Fence | CHAIN LINK | BARB WIRE | Guardrail | _____ | _____ | Fire Hydrant | _____ | _____ | Traverse Point | _____ |
| Sign | _____ | WELL | Culvert | _____ | _____ | Curbing | _____ | _____ | Pipe Found | _____ |
| | | | | | | | | | | |

| | | | | | |
|-----------------|----------|----------|---------------|----------|----------|
| Sanitary Sewer | Existing | Proposed | Traveled Way | Existing | Proposed |
| Telephone Line | _____ | _____ | Ditch | _____ | _____ |
| Electric Line | _____ | _____ | Catch Basin | _____ | _____ |
| Water Line | _____ | _____ | Manhole | _____ | _____ |
| Underdrain Line | _____ | _____ | Sewer Manhole | _____ | _____ |
| Gas Line | _____ | _____ | Utility Pole | _____ | _____ |
| Guardrail | _____ | _____ | Fire Hydrant | _____ | _____ |
| Culvert | _____ | _____ | Curbing | _____ | _____ |

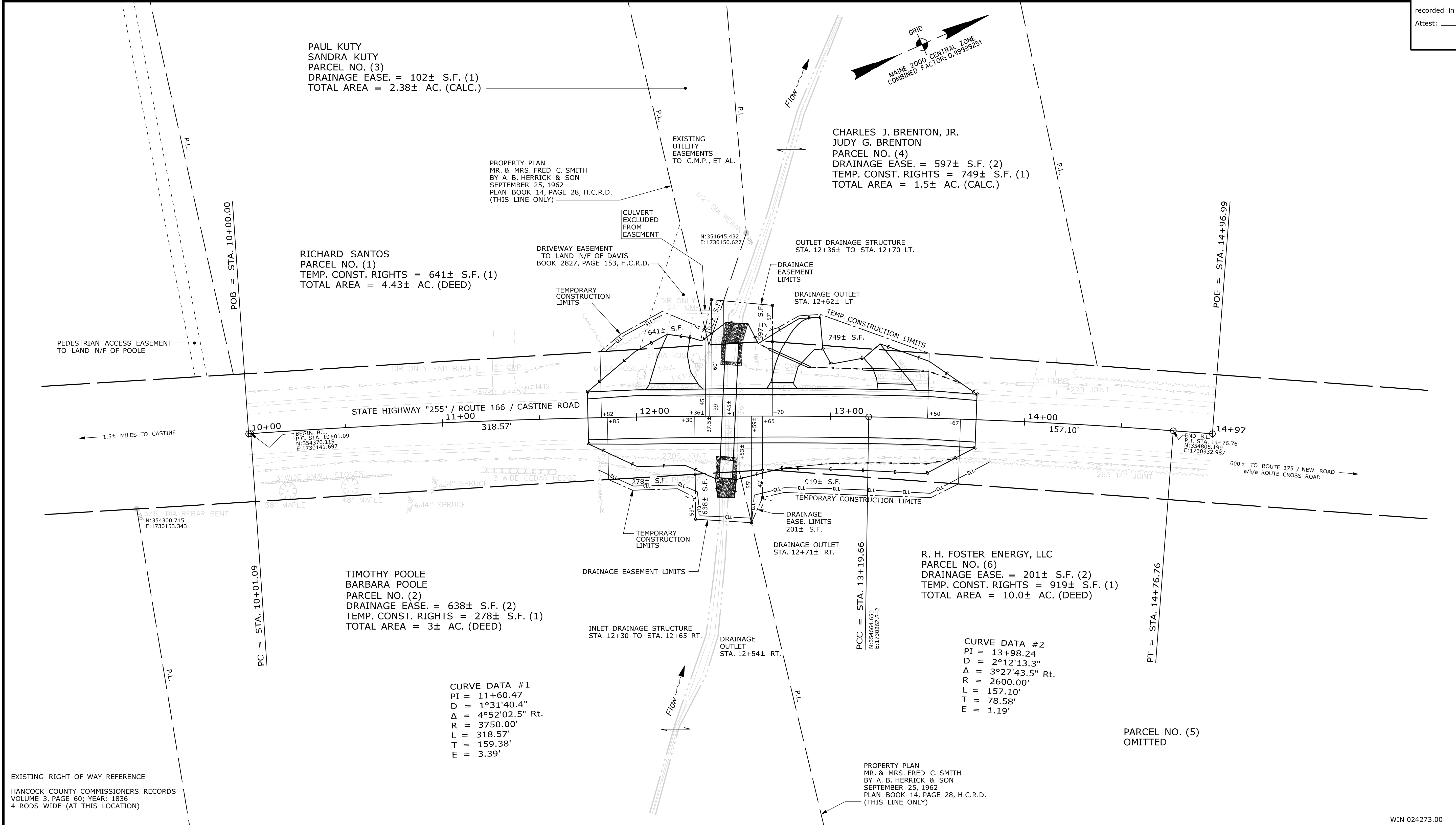
| | | | |
|---------------------|-------|----------------|-------|
| Cut Line | _____ | Fill Line | _____ |
| Stonewall | _____ | Retaining Wall | _____ |
| Baseline | _____ | _____ | _____ |
| Monument | _____ | Traverse Point | _____ |
| Iron Rod Found | _____ | Pipe Found | _____ |
| Replacement Pin Set | _____ | | |

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 ADJACENT PROPERTY OWNERS.

Scale of Feet: 0, 25, 50, 75, 100

STATE OF MAINE
REGISTRY OF DEEDS

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



| |
|--|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460 |
| RIGHT OF WAY MAP PENOBSCOT |
| STATE HIGHWAY "255" ROUTE 166 / CASTINE ROAD HANCOCK COUNTY FEDERAL AID PROJECT NO. 2427300 |
| SHEET NUMBER 15 OF 15 |

| REVISIONS | | | | PLAN FILED IN PLAN BOOK | | | | PAGE COUNTY RECORD | | | | BRUCE A. VAN NOTE COMMISSIONER JOYCE NOEL TAYLOR CHIEF ENGINEER DATE | STATE HIGHWAY "255" ROUTE 166 / CASTINE ROAD PENOBSCOT HANCOCK COUNTY FEDERAL AID PROJECT NO. 2427300 | | | SHEET NUMBER 15 OF 15 |
|-----------|------|-------------|----|-------------------------|---------|------|------------|--------------------|------|------|----------------------------------|--|--|--|--|------------------------------------|
| NO. | DATE | DESCRIPTION | BY | NO. | GRANTOR | PAGE | INSTRUMENT | DATE | BOOK | PAGE | APRIL 2022 SCALE 1" = 25' | | | | | |
| | | | | | | | COND. | 10-03-22 | 7234 | 76 | RIGHT-OF-WAY MAP SHEET 1 OF 1 | | | | | |
| | | | | | | | | | | | D.O.T. FILE NO. 5-312 | | | | | |

Date: 12/16/2022
Username: Lucas.P.Soo
Division: HIGHWAY
Filename: ... \HIGHWAY\MSTA\015_RWPLAN1.dgn

WIN 024273.00