

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2018) AADT 2240
Future (2038) AADT 2690
DHV - % of AADT 10%
Design Hour Volume 269
Heavy Trucks (% of AADT) 11%
Heavy Trucks (% of DHV) 8%
Directional Distribution (% of DHV) 60%
18 kip Equivalent P 2.0 271
18 kip Equivalent P 2.5 258
Design Speed (mph) 45

HYDROLOGIC DATA

Drainage Area 4.7 sq mi
Design Discharge (Q50) 652.8 cfs
Check Discharge (Q100) 764.6 cfs
Headwater Elevation (Q1.1) 343.54 ft
Headwater Elevation (Q25) 346.77 ft
Headwater Elevation (Q50) 347.31 ft
Headwater Elevation (Q100) 349.20 ft
Discharge Velocity (Q1.1) 5.52 fps
Discharge Velocity (Q50) 9.58 fps
Discharge Velocity (Q100) 10.09 fps

MATERIALS

Concrete:
Precast Class "P"
All Other Class "A"
Reinforcing Steel ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete f 'c = 4000 psi
Precast Concrete f 'c = 5000 psi
Reinforcing Steel f y = 60,000 psi

LIST OF DRAWINGS

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FARMINGTON
FRANKLIN COUNTY
WILLIAMS #1 BRIDGE
OVER
WILLIAMS BROOK
ROUTE 156 / NORTH CHESTERVILLE ROAD
FEDERAL AID PROJECT NO. STP-2169(000)
PROJECT LENGTH 0.100 mi.
BRIDGE NO. 2980

UTILITIES

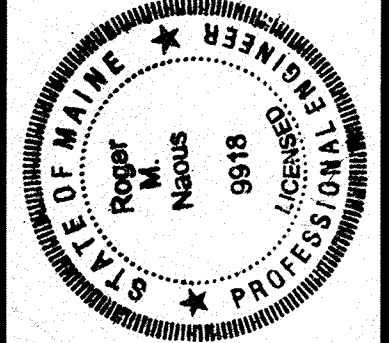
Central Maine Power Company
Consolidated Communications

MAINTENANCE OF TRAFFIC

Bridge will be closed to traffic during construction with traffic detoured.

PROJECT LOCATION	Route 156 in Farmington, approx. 0.19 miles southeasterly of the Wilton T/L, and 0.35 miles southeasterly of Webster Rd, Wilton. Lat./Long. 44°35'39.93" N -70°7'52.36" W
PROGRAM AREA	Highway Bridges - Traditional
OUTLINE OF WORK	Bridge culvert replacement of Williams # 1 Bridge No. 2980 in Farmington carrying Route 156 over Williams Brook.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		9-23-19	9-20-19
CHIEF ENGINEER: <i>[Signature]</i>			



<i>[Signature]</i>	SIGNATURE
9918	P.E. NUMBER
SEP 19 2019	DATE

PROJECT INFORMATION	
PROGRAM	BRIDGE
PROJECT MANAGER	DEVON EATON
DESIGNER	ROGER NADEAU
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

FARMINGTON WILLIAMS #1 BRIDGE	TITLE SHEET
----------------------------------	-------------

SHEET NUMBER
1
OF 18

[illegible]

GENERAL CONSTRUCTION NOTES

1. *During construction, the road will be closed to traffic for a time period specified in the Special Provisions.*
2. *For easements, construction limits and right of way lines, refer to Right of Way Map.*

3. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

4. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

5. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

6. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the Plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

7. All embankment material, except as otherwise shown, shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill with the additional requirement that the maximum particle size be limited to 4 inches.

8. Place riprap on sideslopes up to EL. 347'.

9. Riprap adjacent to the box culvert shall be placed so as not to damage the culvert. Any damage to the box culvert during construction shall be repaired or replaced as determined by the Resident at the Contractor's expense.

10. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

II. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.14, Erosion Control Mix.

12. Place a 24-in. wide strip of Extended-use Erosion Control Blanket on the sideslopes along the backside of the guardrail.

13. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.

14. *Extended-use Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.*

15. *Protective Coating for Concrete Surfaces shall be applied to the following areas:*

On all concrete headwalls and box surfaces that are exposed and to limit lines, one foot beyond intersection of all surfaces with ground.

16. Guardrail post length and embedment as shown in the Standard Details shall be modified from the indicated 6 foot length to 8 feet, with 5'-5" of embedment.

17. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>

18. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

19. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

20. The project geotechnical report titled: 'Geotechnical Design Report for the Replacement of Gower Farm Bridge, US Route 2 Over Beales Brook, Farmington, Maine Soils Report No., Dated 2017, may be accessed at the MainedOT website.

21. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.

22. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

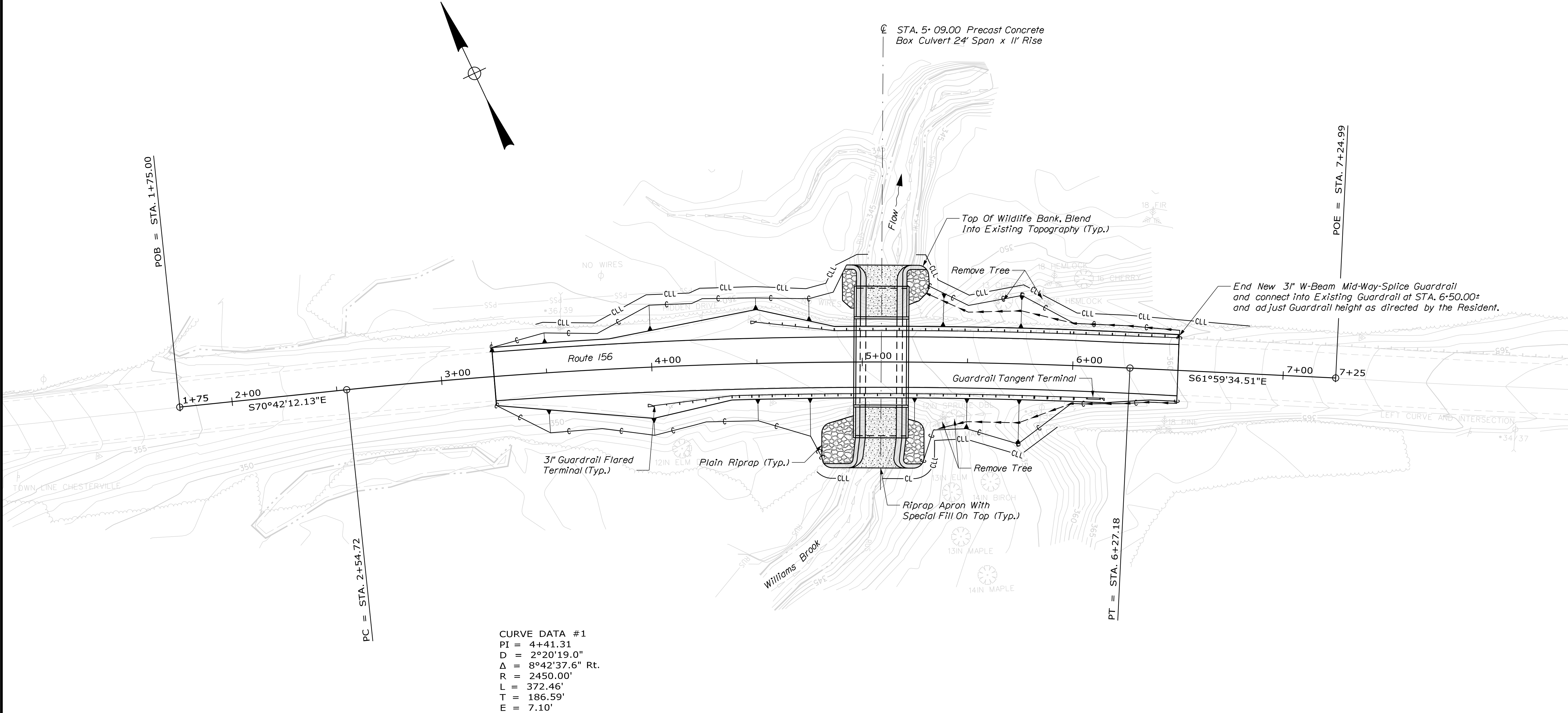
b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.

23. Crushed stone bedding placed under the box culvert shall be placed in lifts between 8 inches and 12 inches thick loose measure and each lift shall be compacted to interlock the particles with a minimum of 4 passes with a vibratory plate compactor.

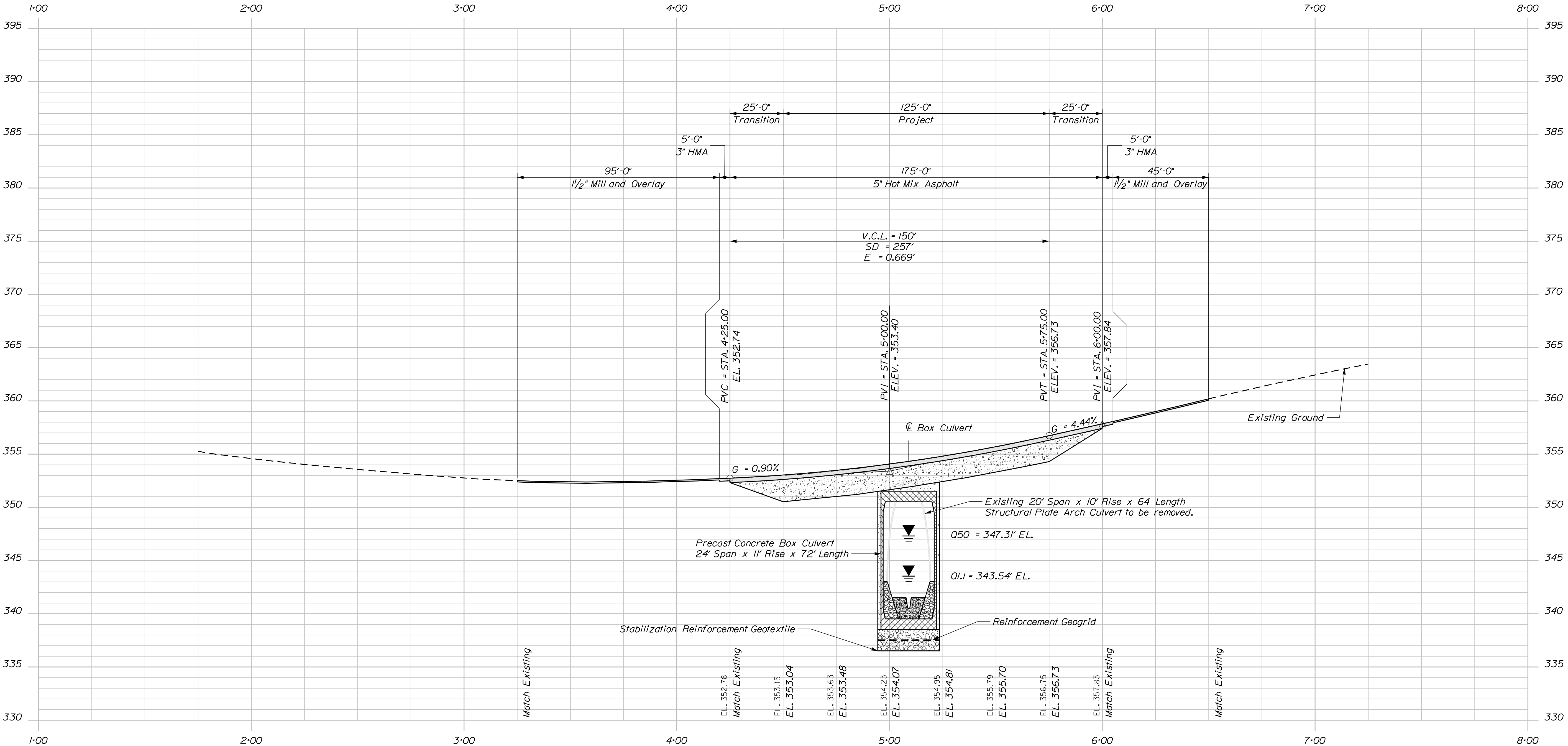
24. Connection between proposed and existing guardrail shall be incidental to related contract items.

SHEET NUMBER										WILLIAMS #1 BRIDGE WILLIAMS BROOK FARMINGTON FRANKLIN COUNTY										PROJ. MANAGER DESIGN-DETAILED CHECKED-REVISED DESIGN2-DETAILED2 DESIGN3-DETAILED3				D. EATON R. MAOUS D. EATON				BY J. LEAVITT M. POLLIN		DATE 8/20/2019 9/13/2019																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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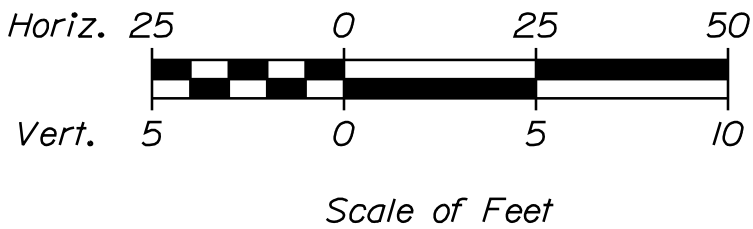


STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2169(000)	WILLIAMS #1 BRIDGE				PROJ. MANAGER	D. EATON	BY	DATE
	WILLIAMS BROOK				DESIGN-DETAILED	R. MAJUS	J. LEAVITT	8-20-2019
	FRANKLIN COUNTY				CHECKED-REVIEWED	D. EATON	M. POULIN	9-13-2019
	GENERAL PLAN				DESIGN2-DETAILED2			SIGNATURE
					DESIGN3-DETAILED3			
					REVISIONS 1			P.E. NUMBER
					REVISIONS 2			
					REVISIONS 3			
					REVISIONS 4			DATE
					FIELD CHANGES			

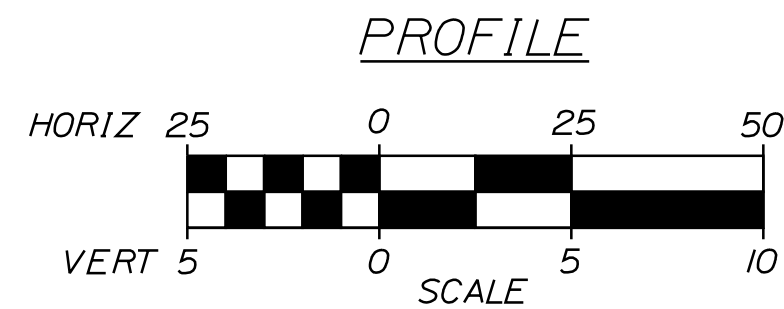
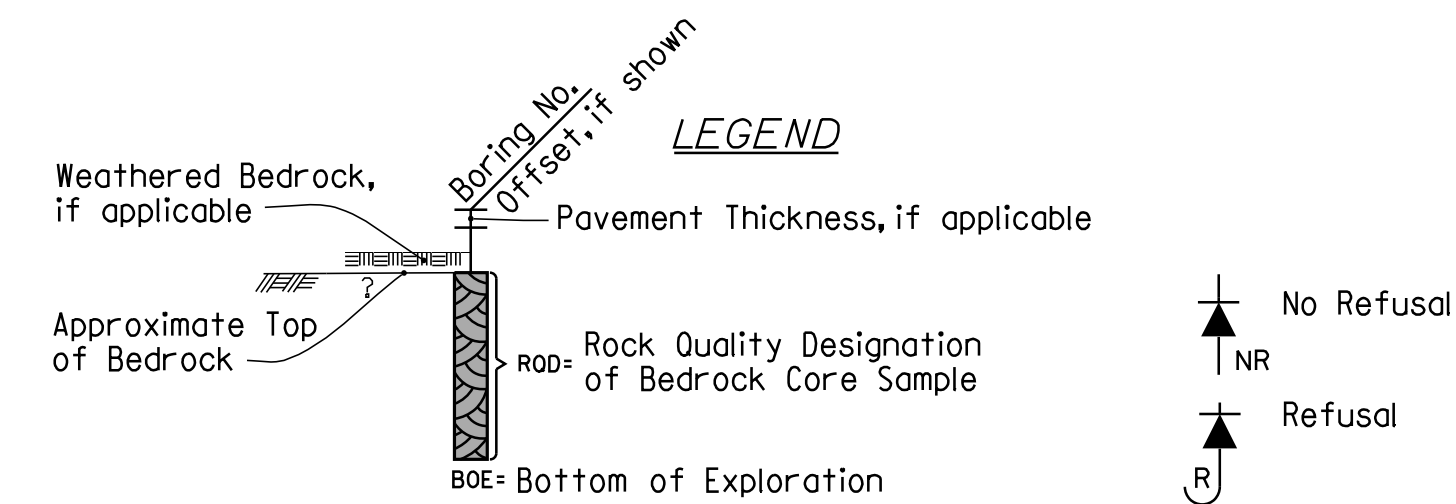
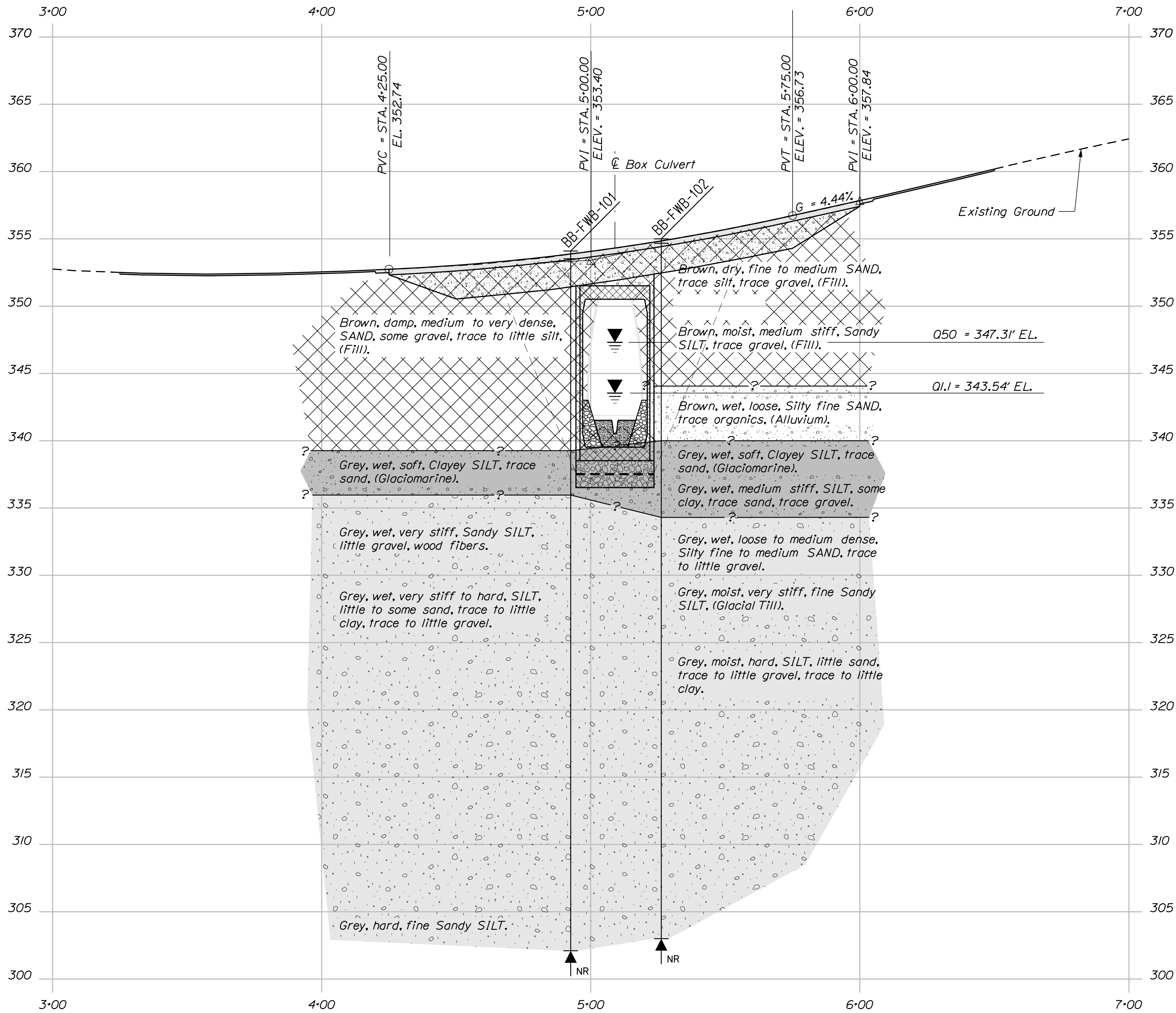
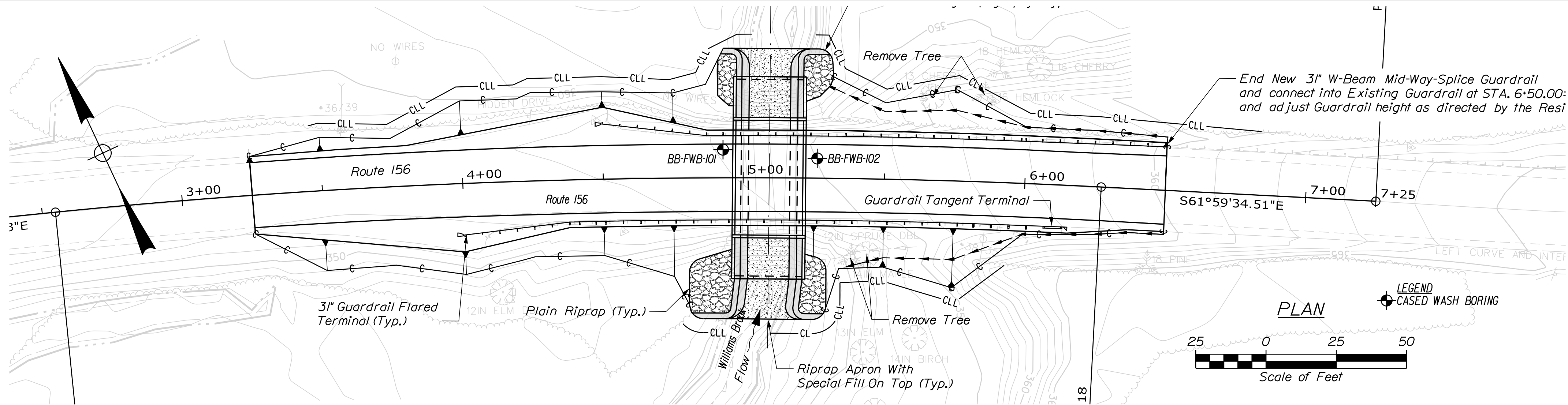
SHEET NUMBER	3	OF 18	BRIDGE NO. 2980	WIN	BRIDGE PLANS
				021690.00	



PROFILE



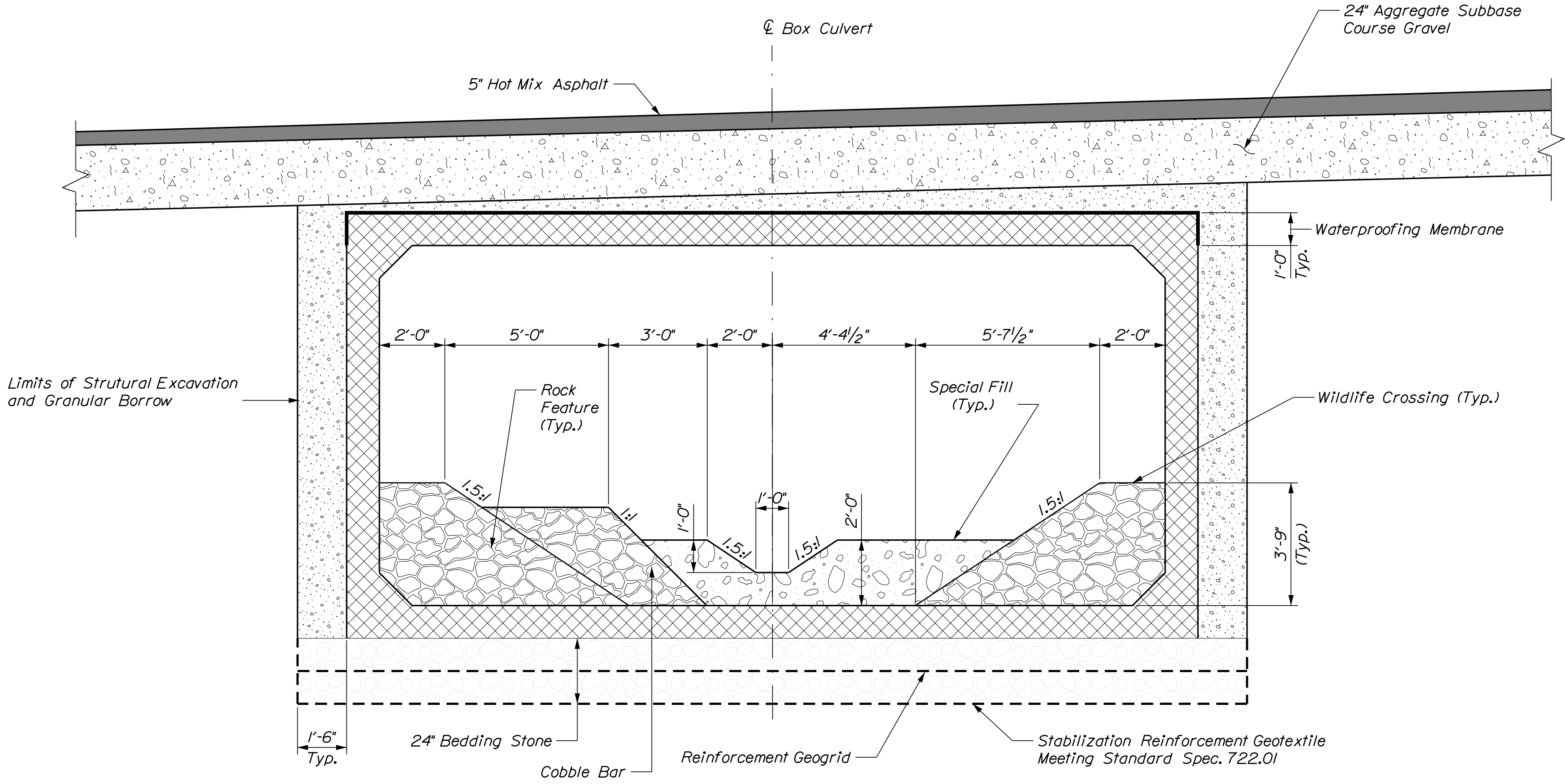
STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-2169(000)	DATE		SIGNATURE	
	PROJ. MANAGER	BY	DATE	P.E. NUMBER
	DESIGNED-Detailed	D. EATON	8-20-2019	
WILLIAMS #1 BRIDGE WILLIAMS BROOK FRANKLIN COUNTY FARMINGTON	CHECKED-Reviewed	J. LEAVITT	9-13-2019	
	DESIGNED-Detailed	M. POULIN		
	REVISIONS 1			
	REVISIONS 2			
	REVISIONS 3			
SHEET NUMBER 4 OF 18	BRIDGE NO. 2990		BRIDGE PLANS	
	WIN		021690.00	



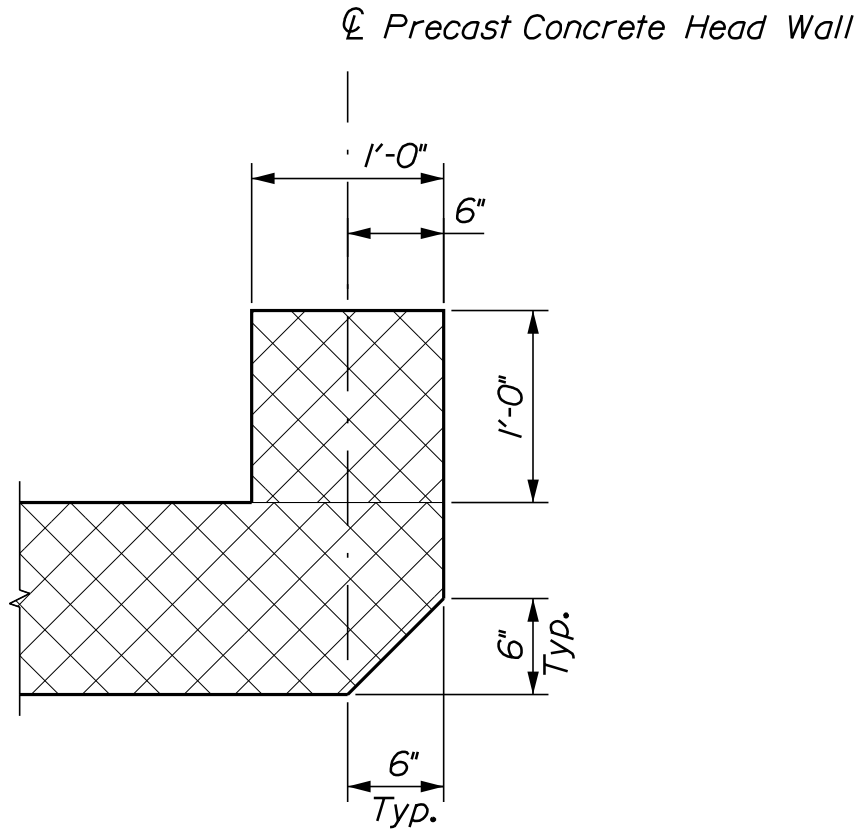
Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil and bedrock transitions may vary and are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

SHEET NUMBER										STATE OF MAINE							
WILLIAMS #1 BRIDGE WILLIAMS BROOK FRANKLIN COUNTY FARMINGTON										PROJ. MANAGER		D. EATON		BY		DATE	
										DESIGN-DETAILED		R. NAJOS		J. LEAVITT		12-10-2018	
										CHECKED-REVISED						3/14/2019	
BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE										DESIGN2-DETAILED2		L. KRUSINSKI		T. WHITE		FEB. 2018	
										DESIGN3-DETAILED3							
										REVISIONS 1							
										REVISIONS 2						P.E. NUMBER	
										REVISIONS 3							
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														BRIDGE NO. 2980		WIN	
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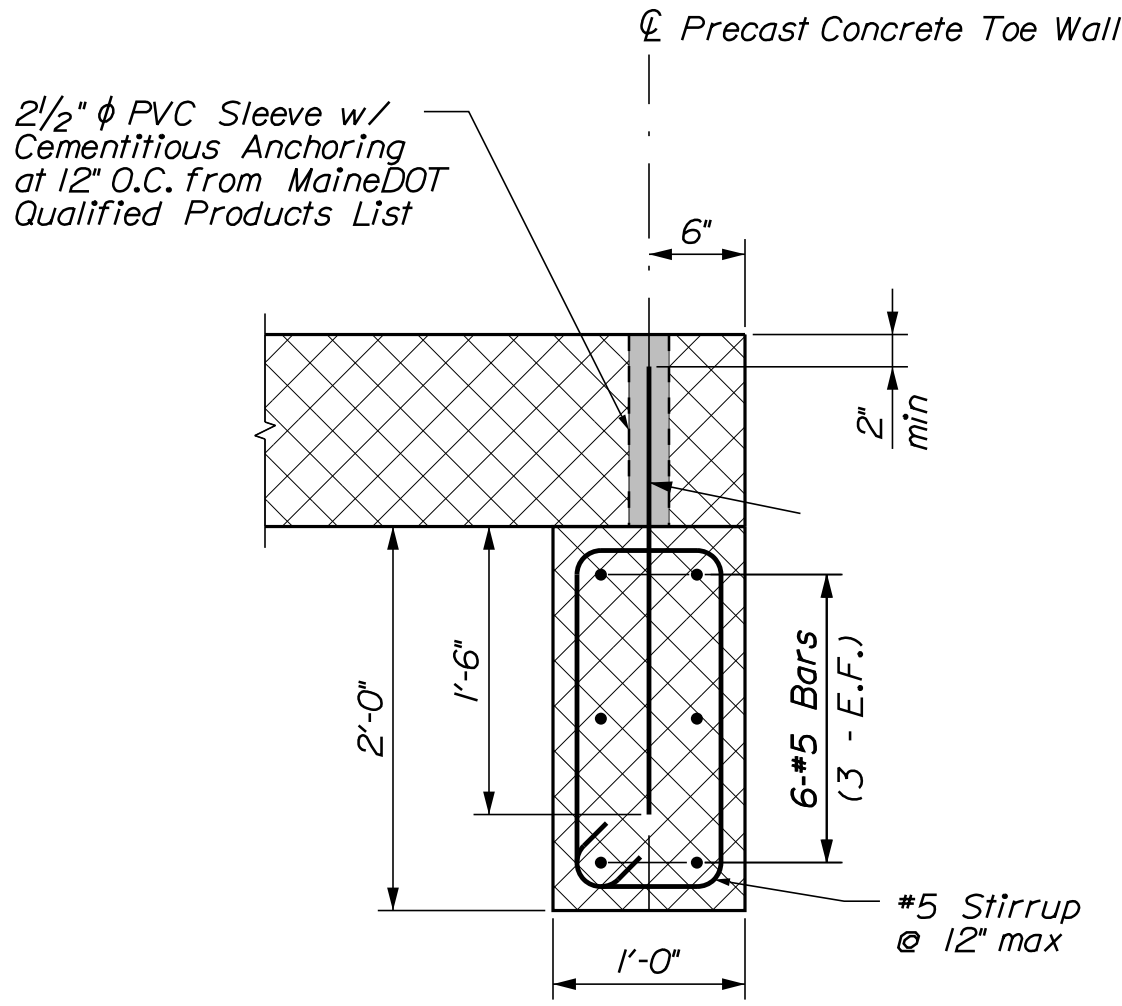
Maine Department of Transportation				Project: Williams over Bridge #2980 carries Route 156 over Williams Brook				Boring No.: BB-FWB-101			
Soil/Rock Exploration Log				Location: Farmington, Maine				WIN: 21690.00			
US CUSTOMARY UNITS											
Driller: Northern Test Boring				Elevation (ft.): 354.1				Auger ID/OD: 2.25/6.25"			
Operator: Nadeau/Taylor				Datum: NAVD88				Sampler: Standard Split Spoon			
Logged By: A. Van Buren				Rig Type: Dietrich 0-50				Hammer Wt./Fall: 140w/30"			
Date Start/Finish: 2/15/2018-2/16/2018				Drilling Method: HSA/Coast Wash Boring				Core Barrel: N/A			
Boring Location: 4+92.6, 10.0 Ft LxL				Casing ID/OD: HW-4"				Water Level*: 11.6 ft bgs.			
Hammer Efficiency Factor: 0.977				Hammer Type: Automatic Q Hydraulic Q Rope & Cathead Q							
Description: R = Rock Core Sample S = Solid Core Sample L = Loose Core Sample U = Unsuccessful Split Spoon Sample Attempt M = Moisture Content Test H = Hole Water Content Test W = Thin Wall Tube Sample HSA = Hole Shear Auger HC = Roller Core Name Efficiency Factor = Rig Specific Annual Calibration Value FI = Plasticity Index V = Field Vane Shear Test PW = Pocket Penetrometer WMC = Weight of Hole or Casing N = 100% Unconsolidated Corrected for Hole Efficiency N = 100% Unconsolidated Corrected for Hole Efficiency N = 100% Unconsolidated Corrected for Hole Efficiency											
Sample Information											
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BOX CULVERT SECTION
24' Span x 11' Rise x 72' Long



PRECAST CONCRETE HEADWALL DETAIL



PRECAST CONCRETE TOE WALL DETAIL

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
STP-2169(000)		SIGNATURE	
WIN		P.E. NUMBER	
021690.00		DATE	
BRIDGE NO. 2990			
		BRIDGE PLANS	

PROJ. MANAGER	D. EATON	BY	DATE
DESIGNED-DETAILED	R. NAJOS	J. LEAVITT	8/20/2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9/13/2019
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WILLIAMS #1 BRIDGE	FRANKLIN COUNTY
WILLIAMS BROOK	
FARMINGTON	
PRECAST CONCRETE BOX CULVERT DETAILS 2 OF 2	

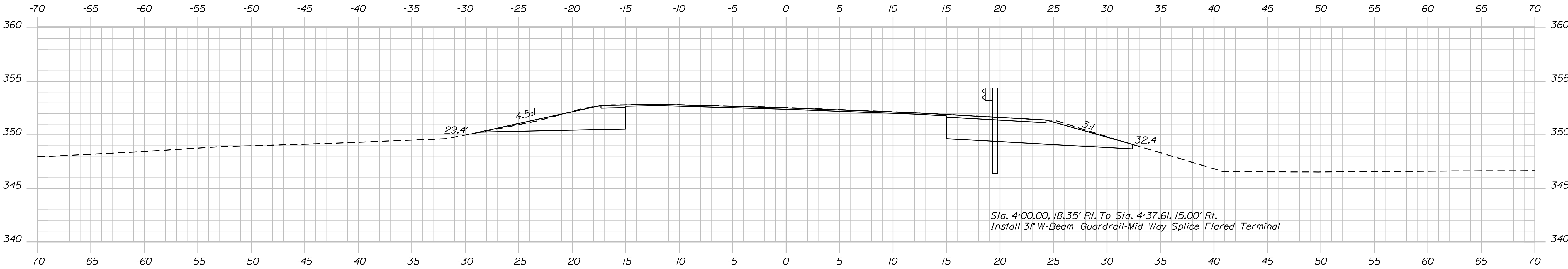
SHEET NUMBER
8
OF 18

Date:9/19/2019

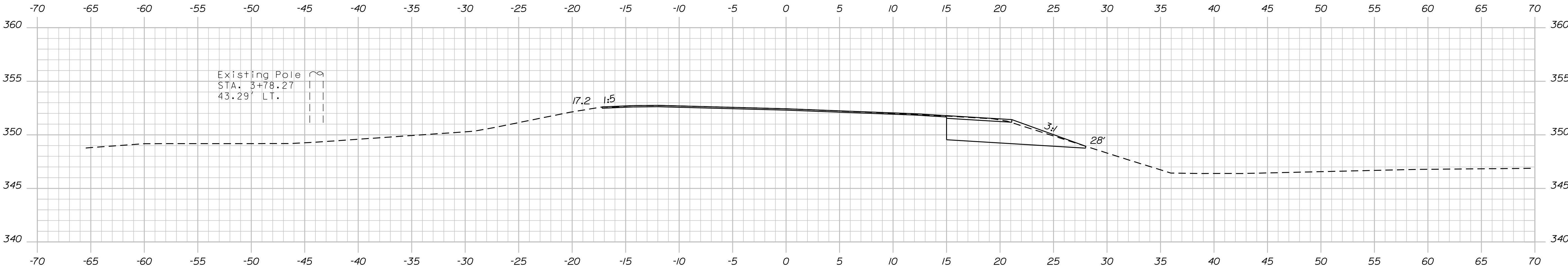
Username: Devon.C.Eaton

Division: BRIDGE

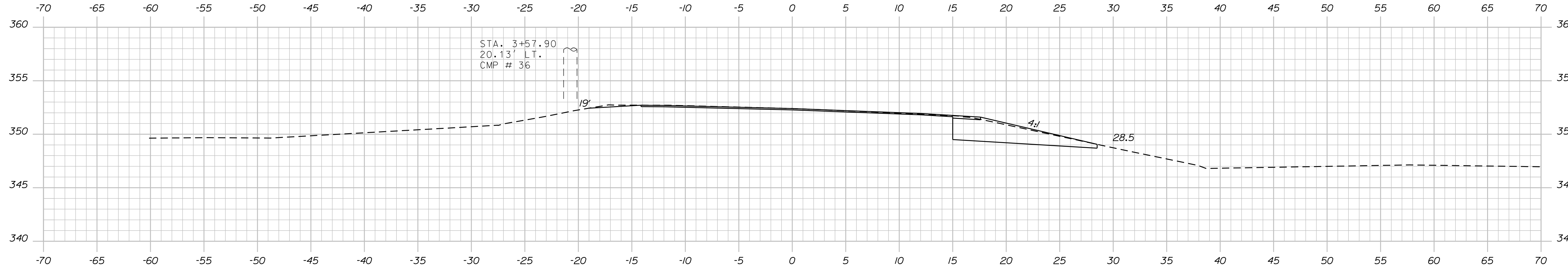
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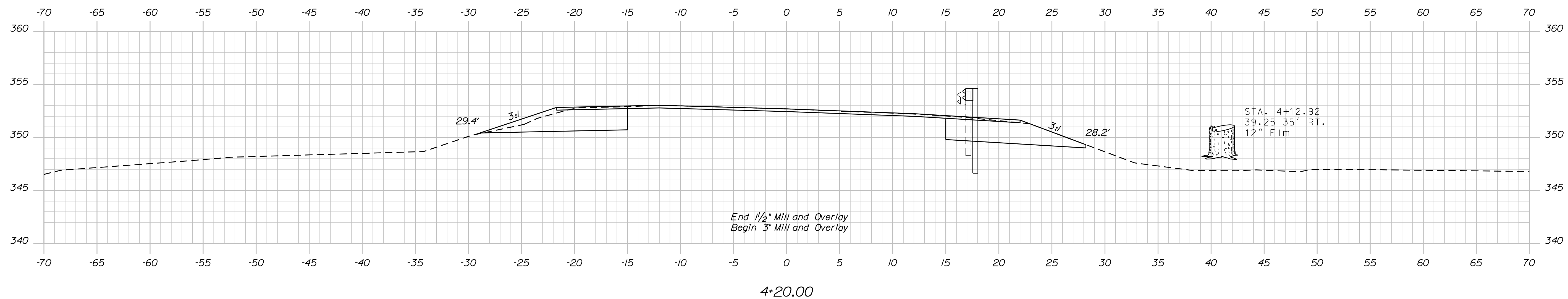
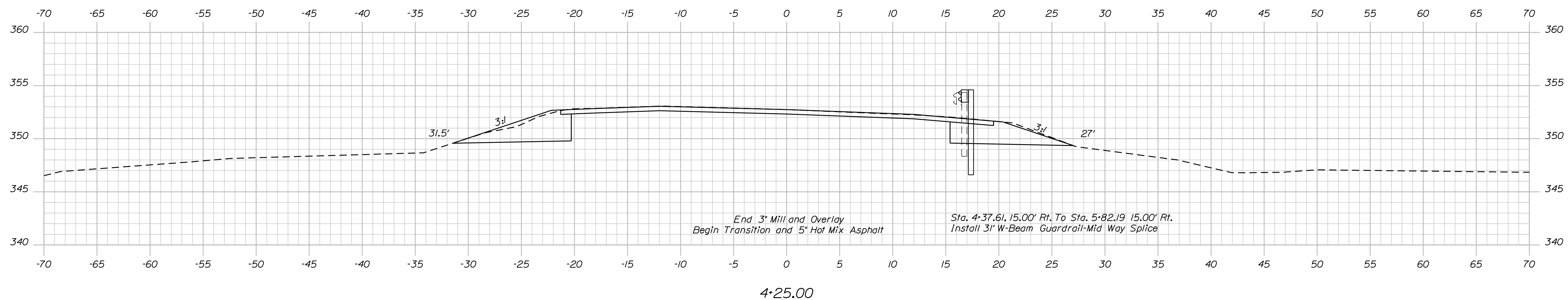
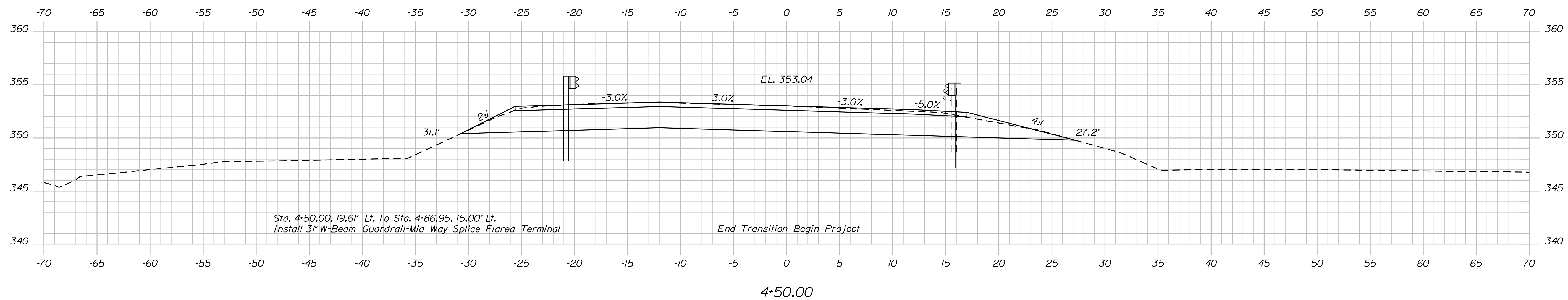


3+75.00



3+50.00

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
STP-2169(000)		SIGNATURE	
WIN		P.E. NUMBER	
BRIDGE NO. 2990		DATE	
021690.00		FIELD CHANGES	
WILLIAMS #1 BRIDGE		PROJ. MANAGER	
WILLIAMS BROOK		CHECKED-REVIEWED	
FRANKLIN COUNTY		DESIGN-REVIEWED	
FARMINGTON		DESIGN-REVIEWED	
CROSS SECTIONS		DESIGN-REVIEWED	
SHEET NUMBER		DESIGN-REVIEWED	
10		DESIGN-REVIEWED	
OF 18		DESIGN-REVIEWED	



PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	R. NAQUS	J. LEAVITT	8-20-2018
CHECKED-REVIEWED	D. EATON	M. FOULIN	9-13-2018
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
P.E. NUMBER			
DATE			

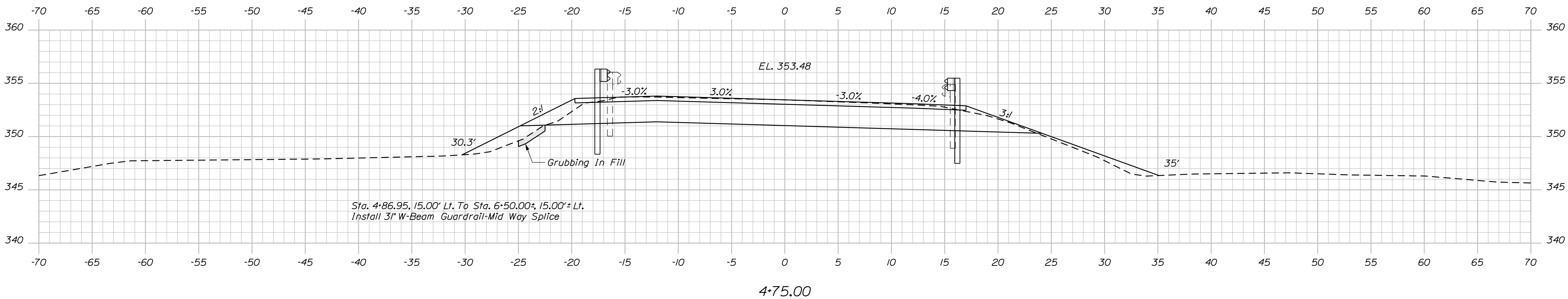
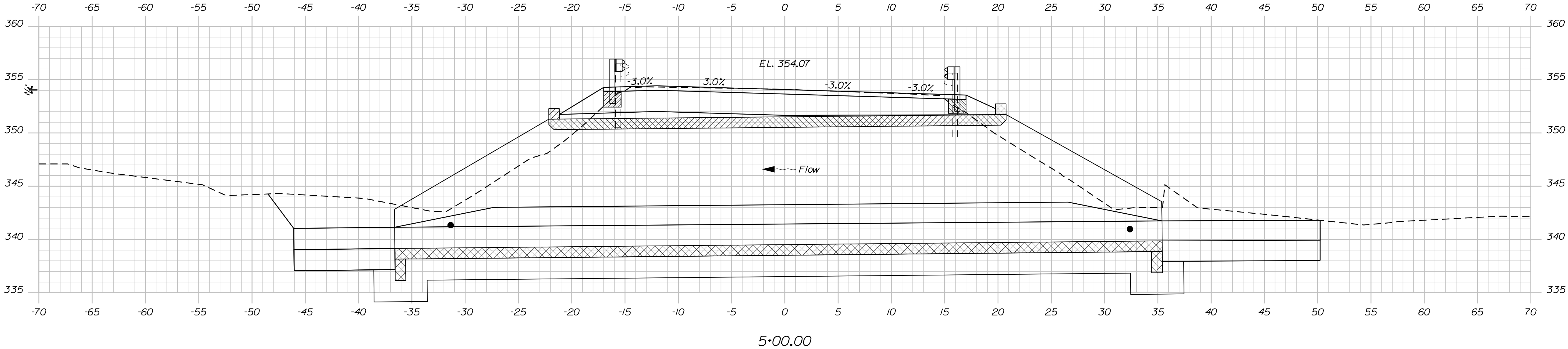
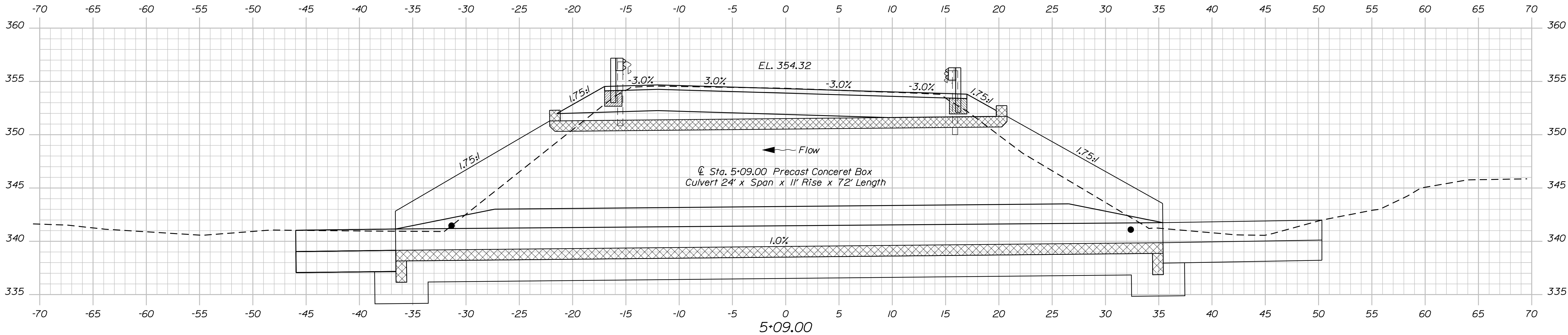
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CROSS SECTIONS

Date:9/19/2019

Username: Devon.C.Eaton

Division: BRIDGE

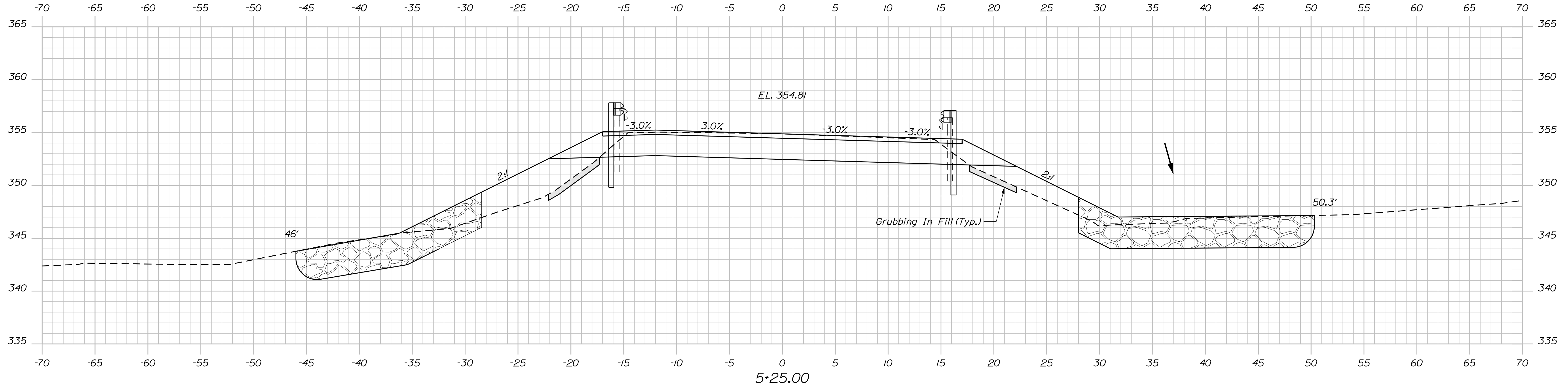
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PROJ. MANAGER	DESIGNED	CHECKED	REVIEWED	DATE
J. LEAVITT	J. LEAVITT	J. LEAVITT	J. LEAVITT	8-20-2019
M. POULIN	M. POULIN	M. POULIN	M. POULIN	9-13-2019
DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED
REVISIONS 1	REVISIONS 1	REVISIONS 1	REVISIONS 1	REVISIONS 1
REVISIONS 2	REVISIONS 2	REVISIONS 2	REVISIONS 2	REVISIONS 2
REVISIONS 3	REVISIONS 3	REVISIONS 3	REVISIONS 3	REVISIONS 3
REVISIONS 4	REVISIONS 4	REVISIONS 4	REVISIONS 4	REVISIONS 4
FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES

WILLIAMS #1 BRIDGE WILLIAMS BROOK FARMINGTON FRANKLIN COUNTY	CROSS SECTIONS
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BRIDGE NO. 2980	021690.00	BRIDGE PLANS
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WILLIAMS #1 BRIDGE

WILLIAMS BROOK

FARMINGTON

FRANKLIN COUNTY

CROSS SECTIONS

SHEET NUMBER

13

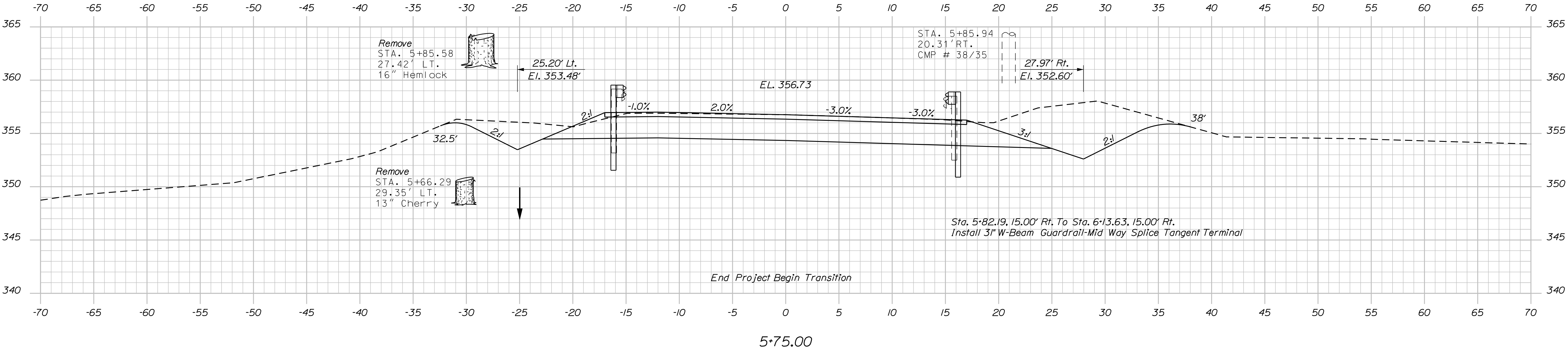
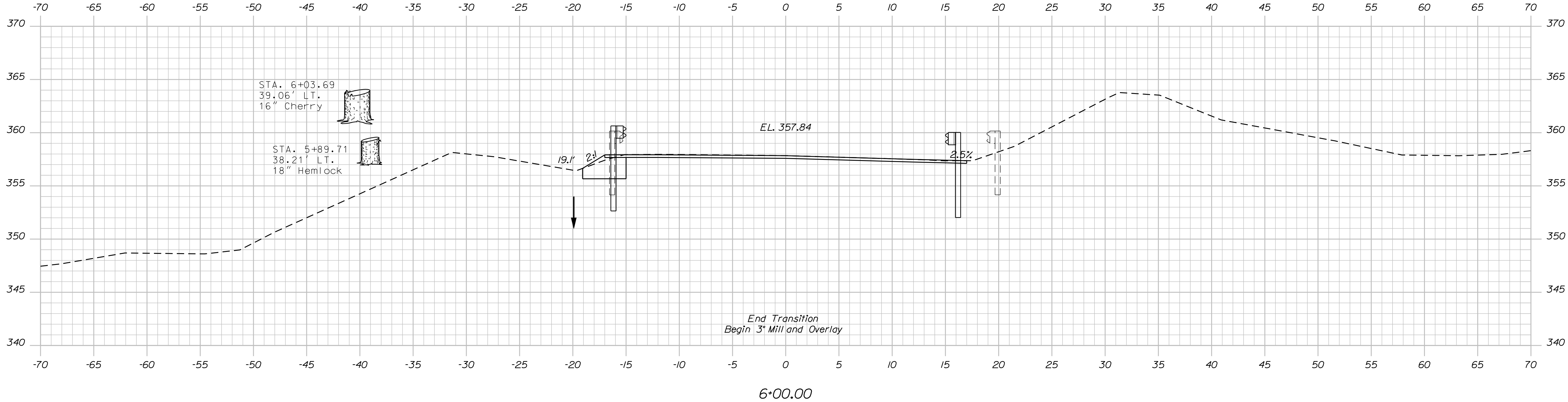
OF 18

Date:9/19/2019

Username: Devon C.Eaton

Division: BRIDGE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2169(000)
WIN
021690.00
BRIDGE NO. 2990
BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
CHECKED-REVIEWED	J. LEAVITT	8-20-2019	SIGNATURE
DESIGNED-DETAILED	M. POULIN	9-13-2019	P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WILLIAMS #1 BRIDGE
WILLIAMS BROOK
FRANKLIN COUNTY
FARMINGTON
CROSS SECTIONS

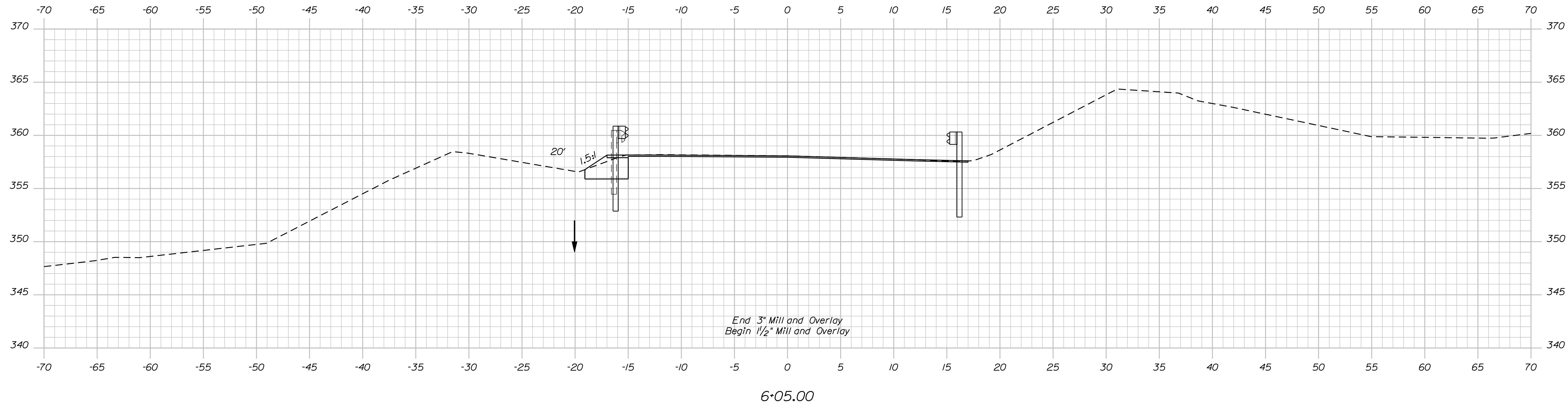
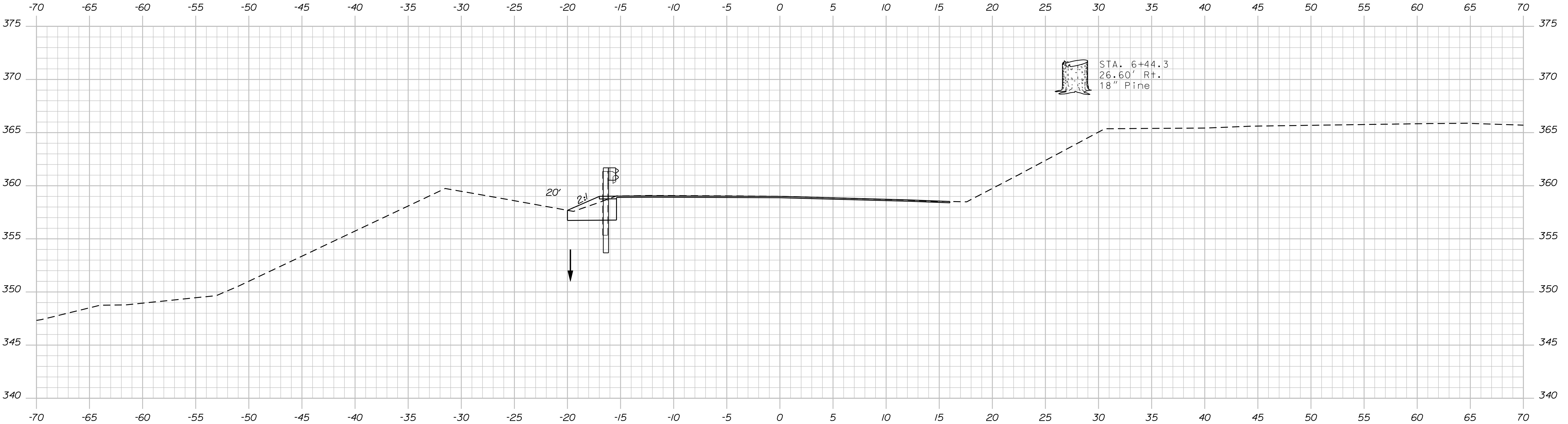
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OF 18

Username: Devon.C.Eaton

Date:9/19/2019

Division: BRIDGE

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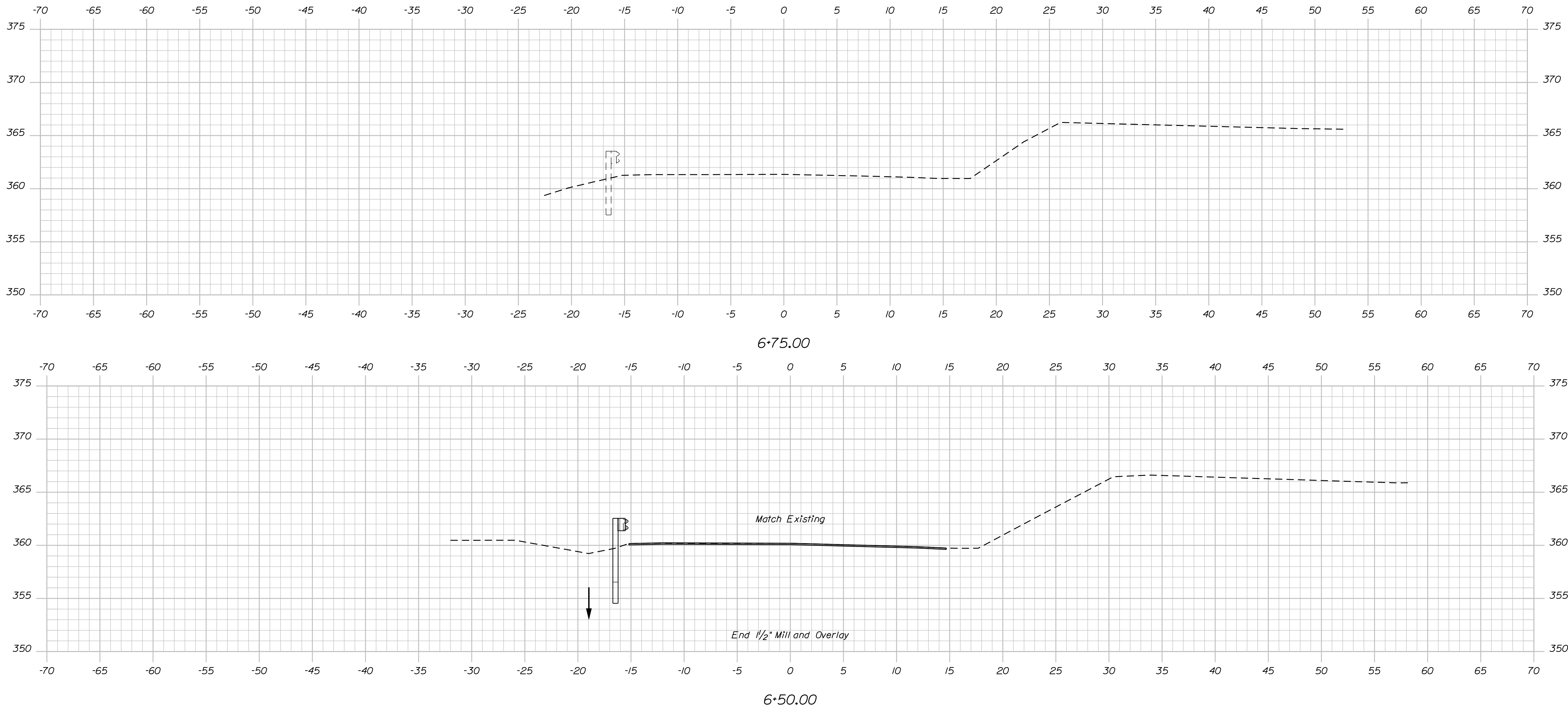


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2169(000)
WIN
BRIDGE NO. 2990
021690.00
BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	R. NAQUIS	J. LEAVITT	8-20-2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9-13-2019
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WILLIAMS #1 BRIDGE
WILLIAMS BROOK
FRANKLIN COUNTY
FARMINGTON
CROSS SECTIONS

SHEET NUMBER
15
OF 18



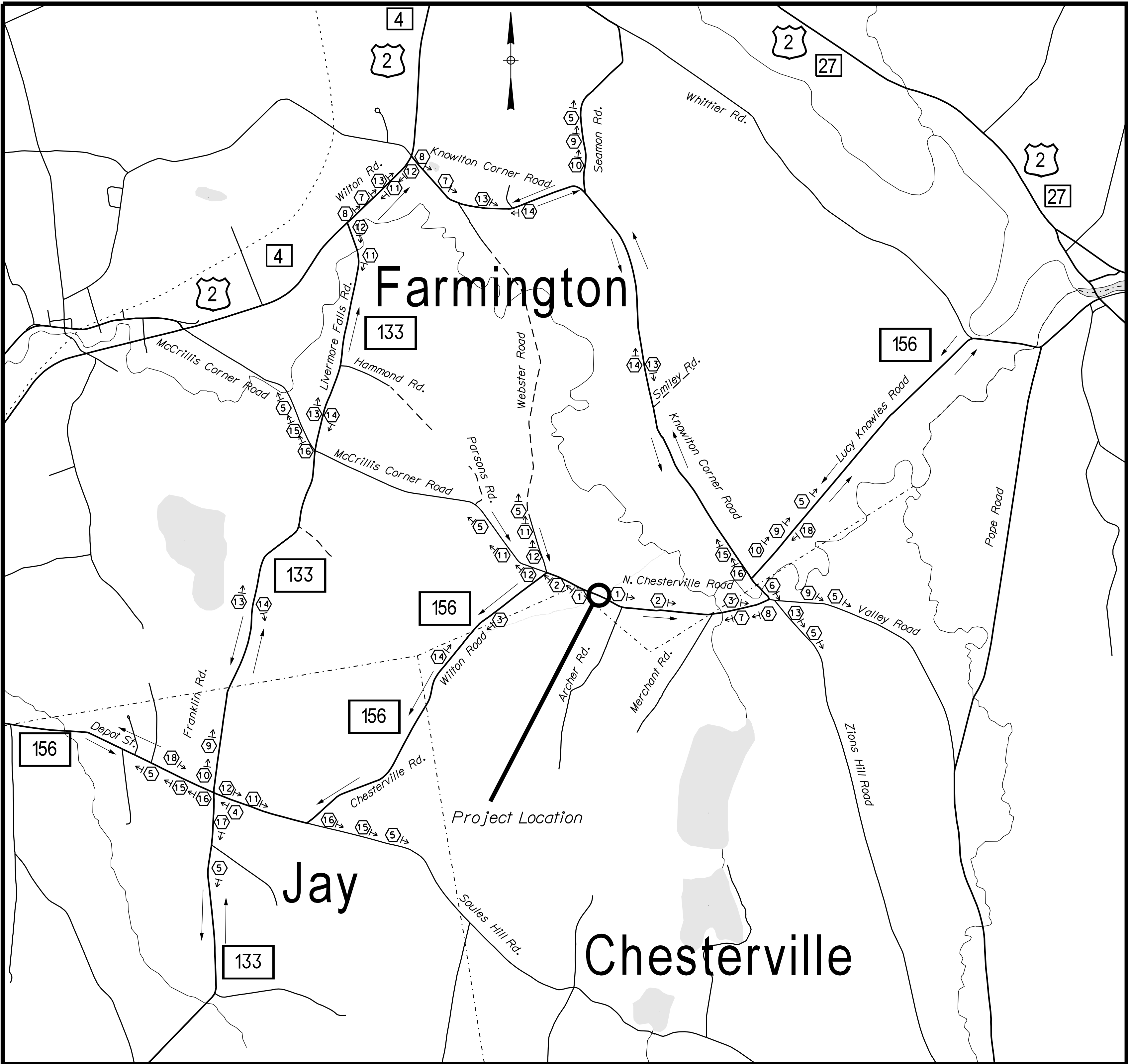
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
STP-2169(000)	
BRIDGE NO. 2980	WIN 021690.00
BRIDGE PLANS	

PROJ. MANAGER	D. EATON	BY	DATE
CHECKED-DETAILED	R. MAUDS	J. LEAVITT	8-20-2019
DESIGN-REVIEWED	D. EATON	M. POULIN	9-13-2019
DESIGN-BE-PAIRED			
REVISIONS 1			
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FIELD CHANGES			
SIGNATURE			
P.E. NUMBER			
DATE			

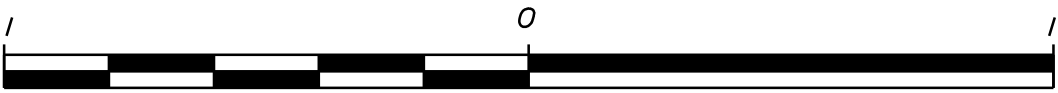
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WILLIAMS BROOK
FARMINGTON FRANKLIN COUNTY

CROSS SECTIONS

SHEET NUMBER
16
OF 18



LOCATION MAP

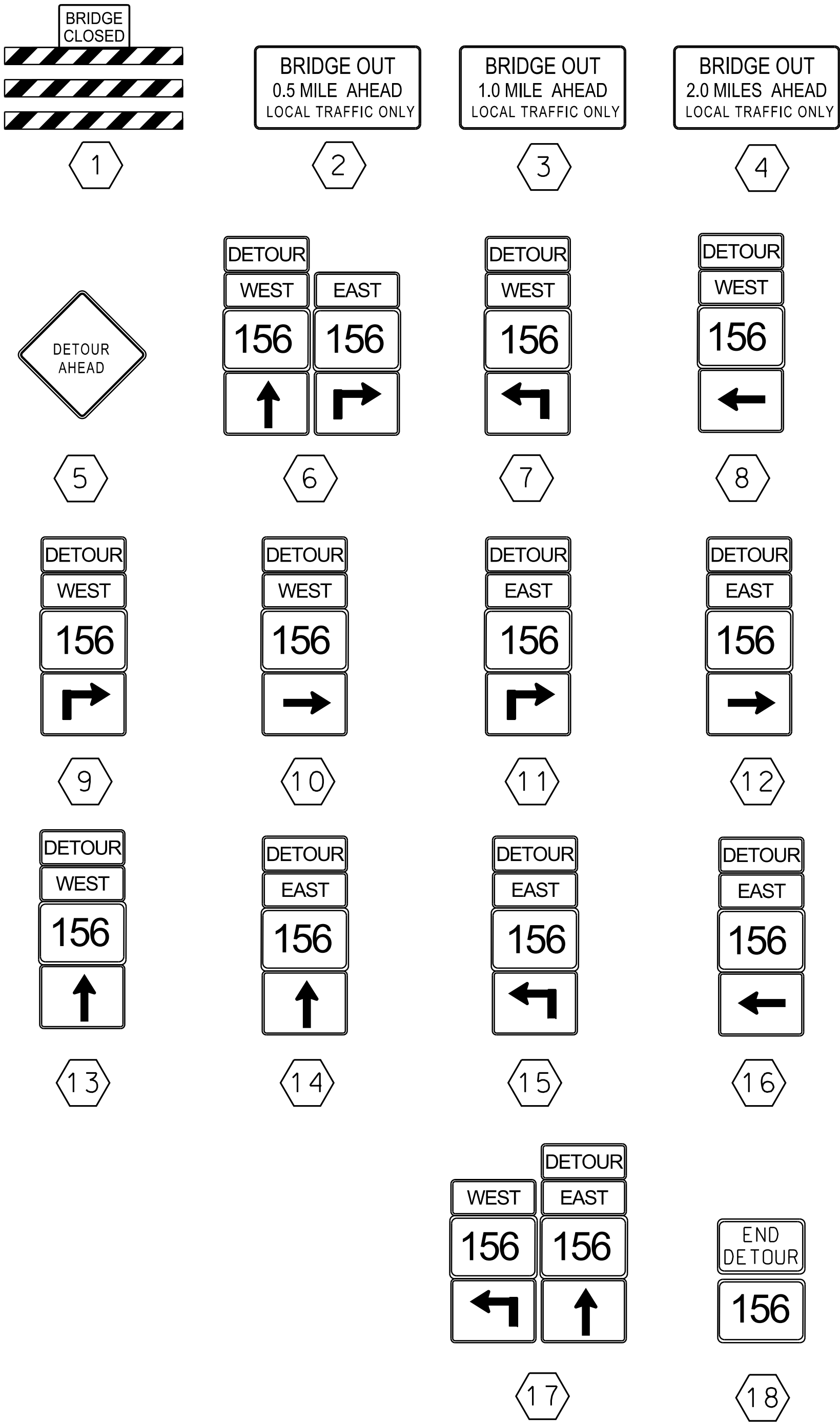


Scale of Miles

CONSTRUCTION NOTES

1. All modifications to traffic control devices shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).
2. Any and all changes and adjustments to traffic control devices shall be included in the Traffic Control Plan submitted, designed and stamped by a Professional Engineer licensed in the State of Maine, and shall be approved by the Resident prior to implementation.
3. Additional signs may be needed as directed by the Resident.
4. The resident shall approve locations and text on message boards along detour route.
5. Cover or remove all conflicting route and directional signs.
6. Provide additional signs 13 and 14 at a maximum spacing of 2 miles on routes 133 and 156 between signs on the detour plan.

SIGN SUMMARY



STATE OF MAINE				DEPARTMENT OF TRANSPORTATION				STP-2169(000)				WIN				BRIDGE NO. 2990				021690.00				BRIDGE PLANS			
WILLIAMS #1 BRIDGE				WILLIAMS BROOK				FRANKLIN COUNTY				FARMINGTON				DETOUR SIGNING PLAN				SHEET NUMBER				17			
PROJ. MANAGER				DESIGN-DETAILED				CHECKED-REVIEWED				DESIGN-DETAILED				REVISIONS 1				REVISIONS 2				REVISIONS 3			
D. EATON				R. NAJOS				D. EATON																			
BY				J. LEAVITT				M. POULIN																			
DATE				8/20/2019				9/13/2019																			
SIGNATURE																											
P.E. NUMBER																											
DATE																											
FIELD CHANGES																											

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2019) AADT 7210
Future (2039) AADT 7570
DHV - % of AADT 9%
Design Hour Volume 714
Heavy Trucks (% of AADT) 13%
Heavy Trucks (% of DHV) 9%
Directional Distribution (% of DHV) 54%
18 kip Equivalent P 2.0 999
18 kip Equivalent P 2.5 951
Design Speed (mph) 55

HYDROLOGIC DATA

Drainage Area 4.6 sq mi
Design Discharge (Q50) 557.1 cfs
Check Discharge (Q100) 652.6 cfs
Headwater Elevation (Q1.1) 331.4 ft
Headwater Elevation (Q25) 334.7 ft
Headwater Elevation (Q50) 335.2 ft
Headwater Elevation (Q100) 335.6 ft
Discharge Velocity (Q1.1) 5.82 fps
Discharge Velocity (Q50) 9.65 fps
Discharge Velocity (Q100) 10.02 fps

MATERIALS

Concrete:
Precast Class "P"
All Other Class "A"
Reinforcing Steel ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete f 'c = 4000 psi
Precast Concrete f 'c = 5000 psi
Reinforcing Steel f y = 60,000 psi

LIST OF DRAWINGS

Title Sheet	1
Estimated Quantities and General Construction Notes	2
General Plan	3
Profile	4
Boring Location Plan	5
Interpretive Subsurface Profile	6
Boring Logs	7
Longitudinal Section	8
Box Culvert Details	9
Cross Sections	10-23
Right of Way Map	24

FARMINGTON
FRANKLIN COUNTY
GOWER FARM BRIDGE
OVER
BEALES BROOK
U.S. ROUTE 2 - FARMINGTON FALLS RD.
PROJECT NO. NHPP-2188(000)
PROJECT LENGTH 0.0284 mi.
BRIDGE NO. 2324

UTILITIES

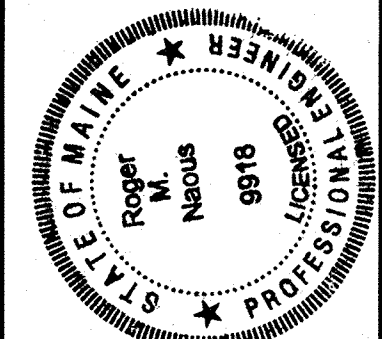
Bee Line TV
Central Maine Power
Consolidated Communications

MAINTENANCE OF TRAFFIC

Maintain one 12'-0" wide lane of alternating one - way traffic using traffic signals.

PROJECT LOCATION	Gower Farm Bridge # 2324 in Farmington carrying U.S. Route 2 over Beales Brook, located 2.5 Mi West of Townline on Route 2 Lat./Long. 44°38'12" N 70°05'51" W
PROGRAM AREA	Highway Bridge - Traditional
OUTLINE OF WORK	Bridge Culvert Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		9/24/19	9-20-19
CHIEF ENGINEER: <i>[Signature]</i>			



SIGNATURE	DATE
<i>[Signature]</i>	SEP 19 2019
P.E. NUMBER	
9918	

PROJECT INFORMATION		PROJECT COMPLETION DATE	
PROGRAM	Bridge	PROJECT RESIDENT	
PROJECT MANAGER	D. Eaton	CONTRACTOR	
DESIGNER	R. Natus		
CONSULTANT			

FARMINGTON GOWER FARM BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 24

[illegible]

GENERAL CONSTRUCTION NOTES

2. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

4. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

5. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the Plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

6. All embankment material, except as otherwise shown, shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill with the additional requirement that the maximum particle size be limited to 4 inches.

7. Place riprap on sideslopes up to EL. 335

8. Riprap adjacent to the box culvert shall be placed so as not to damage the culvert. Any damage to the box culvert during construction shall be repaired or replaced as determined by the Resident at the Contractor's expense.

9. The riprap slope protection shall be constructed as shown on MaineDOT standard detail 610(02). The protective aggregate cushion layer shall be 12 inches thick. A Class 1 non woven erosion control geotextile shall be used under the protective aggregate cushion layer.

10. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

11. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.14, Erosion Control Mix.

12. Place a 24-in. wide strip of Extended-use Erosion Control Blanket on the sideslopes along the backside of the guardrail.

13. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.

14. Extended-use Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.

15. Protective coating for Concrete Surfaces shall be applied to the following areas:

On all concrete headwalls and box surfaces that are exposed and to limit lines, one foot beyond intersection of all surfaces with ground.

16. Guardrail post length and embedment as shown in the Standard Details shall be modified from the indicated 6 foot length to 7 feet, with 4'-6" of embedment.

17. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>

18. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

19. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

20. The project geotechnical report titled: "Geotechnical Design Report for the Replacement of Gower Farm Bridge, US Route 2 Over Beales Brook, Farmington, Maine Soils Report No. , Dated 2017, may be accessed at the [MaineDOT website](#).

21. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.

22. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.

23. Granular Borrow bedding placed under the box culvert shall be placed in lifts between 8 inches and 12 inches thick loose measure and each lift shall be compacted to interlock the particles with a minimum of 4 passes with a vibratory plate compactor.

24. The contractor shall fill the bottom of the precast concrete box culvert with Special Fill, along with the wildlife crossings and rock features. All material and labor will be Paid under Items No. 203.33, Special Fill, and 203.36, Rock Features.

25. The minimum depth of Aggregate Subbase Course Gravel above the new structure shall be 2'-0" before traffic can be shifted onto new structure.

26. Connection between proposed and existing guardrail shall be incidental to re contract items.

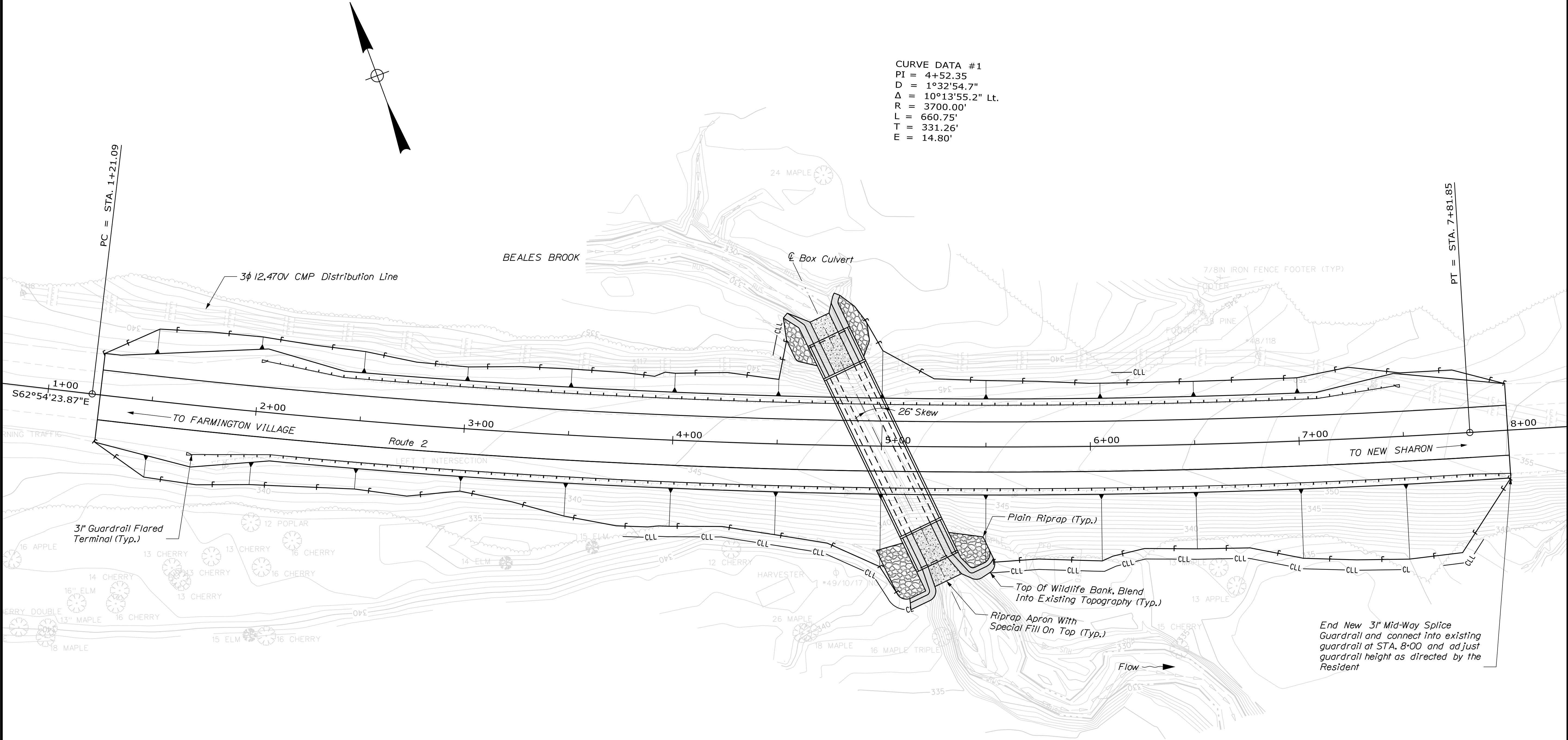
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GOWER FARM BRIDGE BEALES BROOK FARMINGTON FRANKLIN COUNTY					
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DESIGN-DETAILED		R. NAQUIS	J. LEAVITT	3.28.2019	
CHECKED-REVIEWED		D. EATON	M. POULIN	9.13.2019	
SIGNATURE					
DESIGN-DETAILED2					
DESIGN-DETAILED3					
P.E. NUMBER					
REVISONS 1					DATE
REVISONS 2					
REVISONS 3					
REVISONS 4					
FIELD CHANGES					
ESTIMATED QUANTITIES AND GENERAL CONSTRUCTION NOTES					

Date:9/19/2019

Username: Devon C.Eaton

Division: BRIDGE

Filename: ... \MSTAD003_GENERAL PLAN.dgn



STATE OF MAINE DEPARTMENT OF TRANSPORTATION NHP-2188(000) BRIDGE NO. 2324 WIN 21880.00 BRIDGE PLANS					SIGNATURE P.E. NUMBER DATE
GOWER FARM BRIDGE BEALES BROOK FRANKLIN COUNTY					
GENERAL PLAN					
FIELD CHANGES					

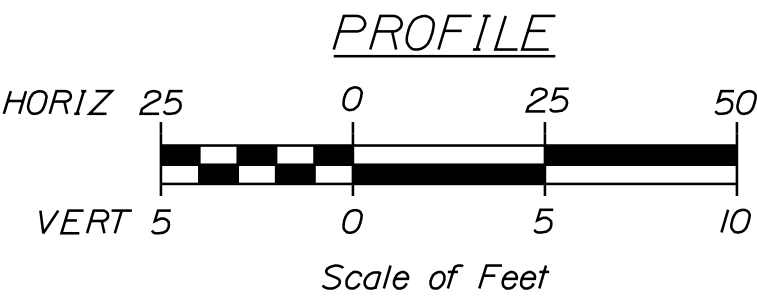
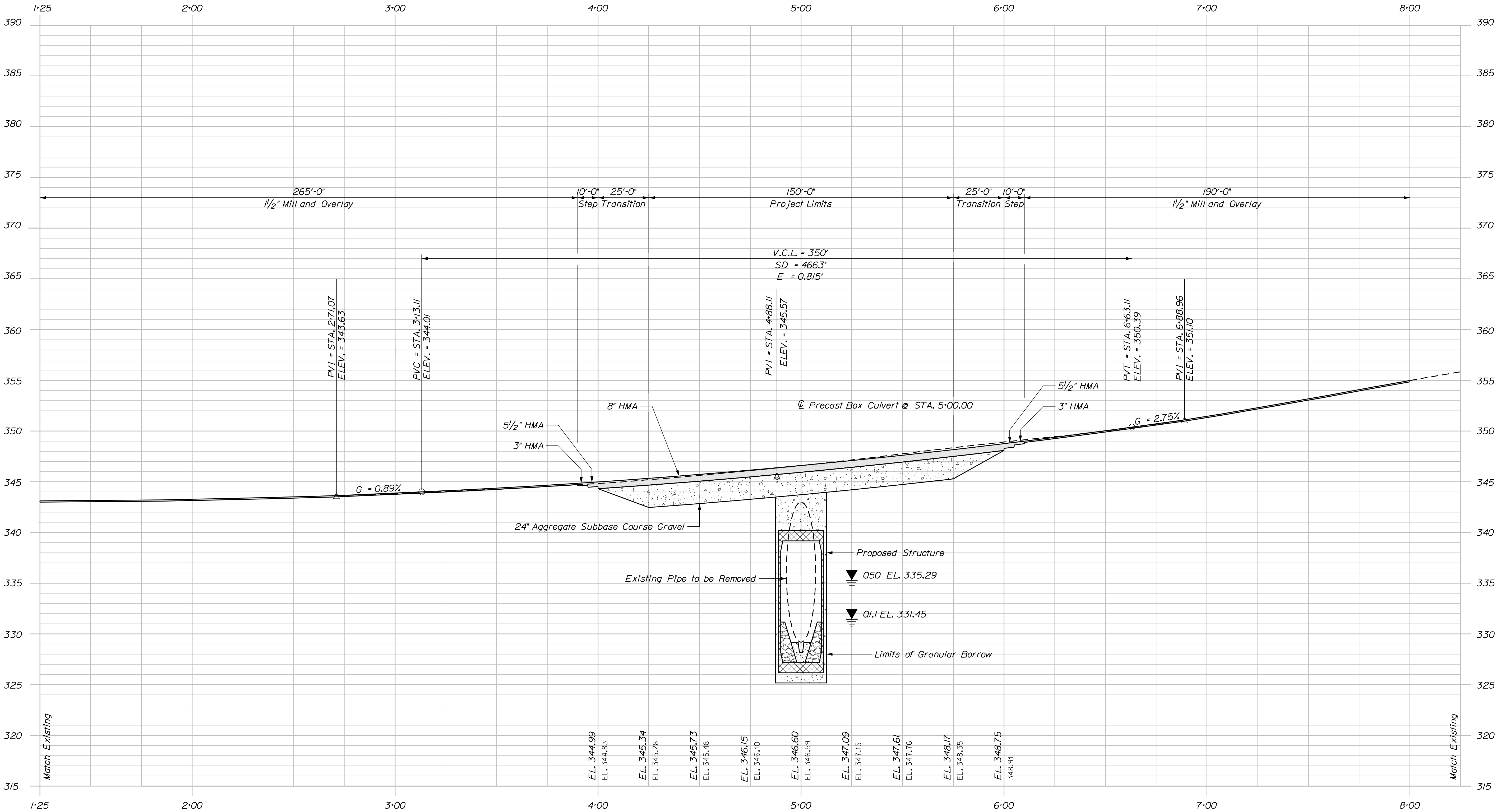
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OF 24

GOWER FARM BRIDGE
 BEALES BROOK
 FARMINGTON FRANKLIN COUNTY

GENERAL PLAN



PROJ. MANAGER	D. EATON	BY	DATE
CHECKED-DETAILED	J. NAJOS	J. LEAVITT	3/28/2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9/13/2019
DESIGN-DETAILED			
DESIGN-REVIEWED			
REVISIONS 1			
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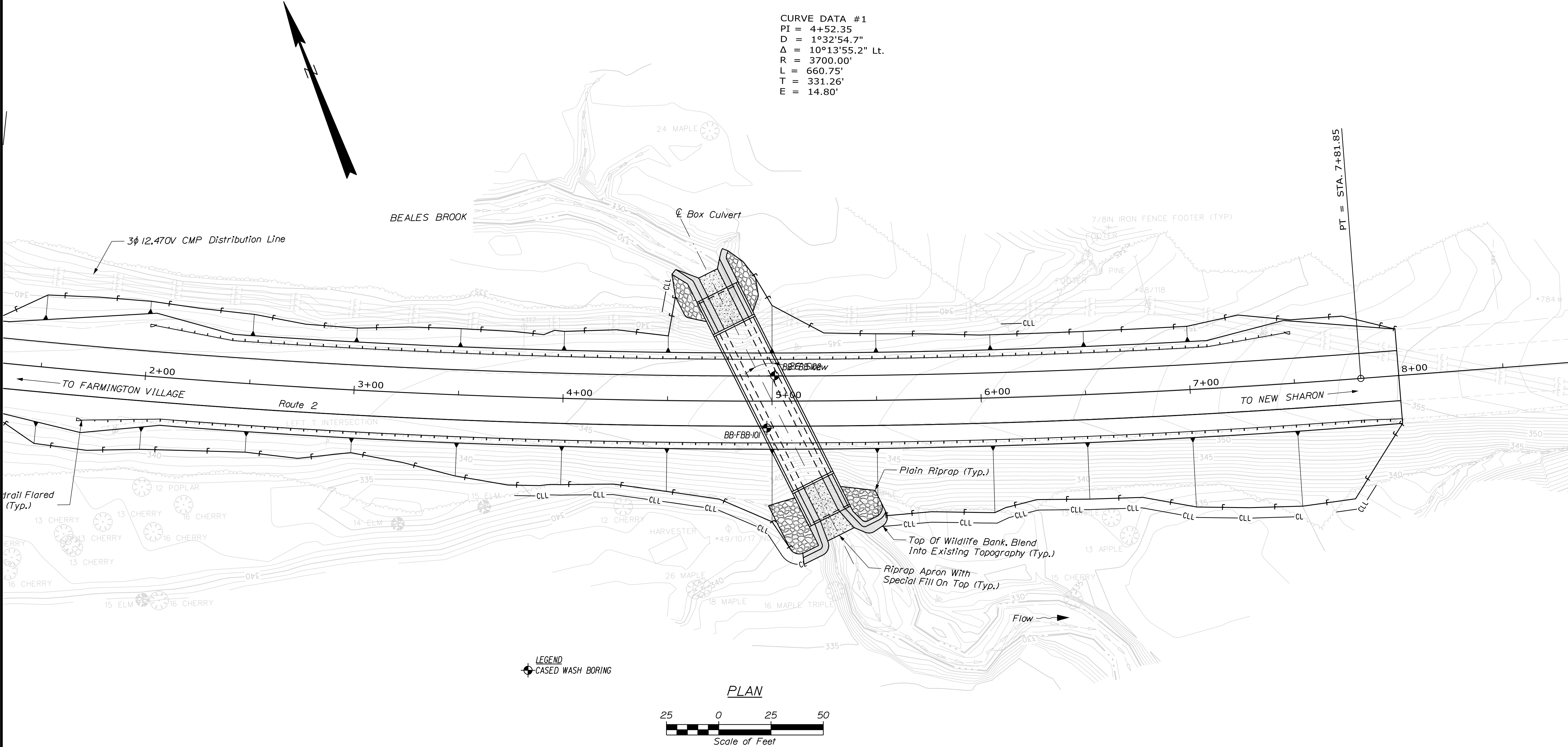
GOWER FARM BRIDGE BEALES BROOK FRANKLIN COUNTY FARMINGTON	SIGNATURE P.E. NUMBER DATE
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Date:9/19/2019

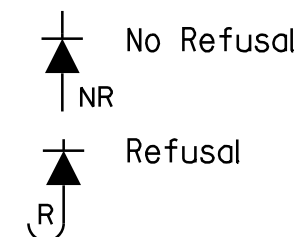
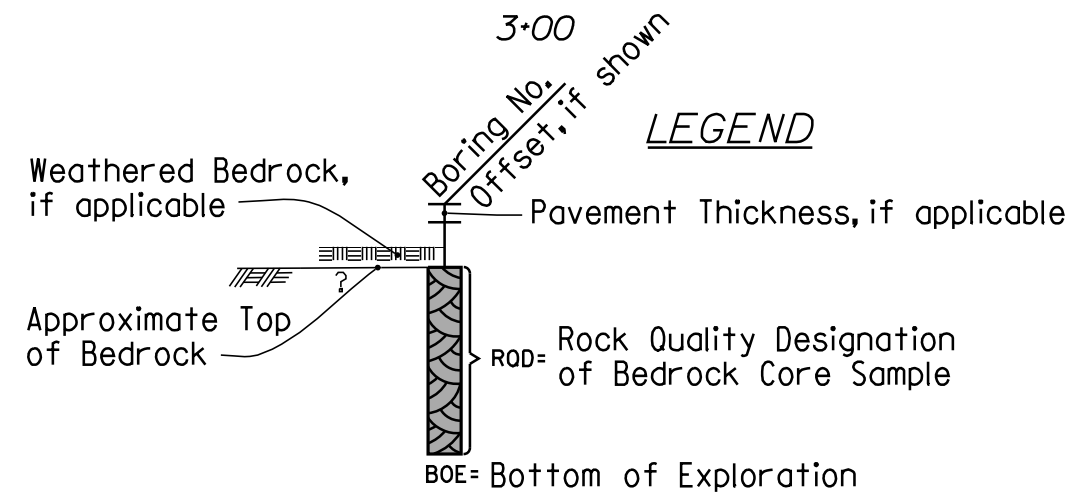
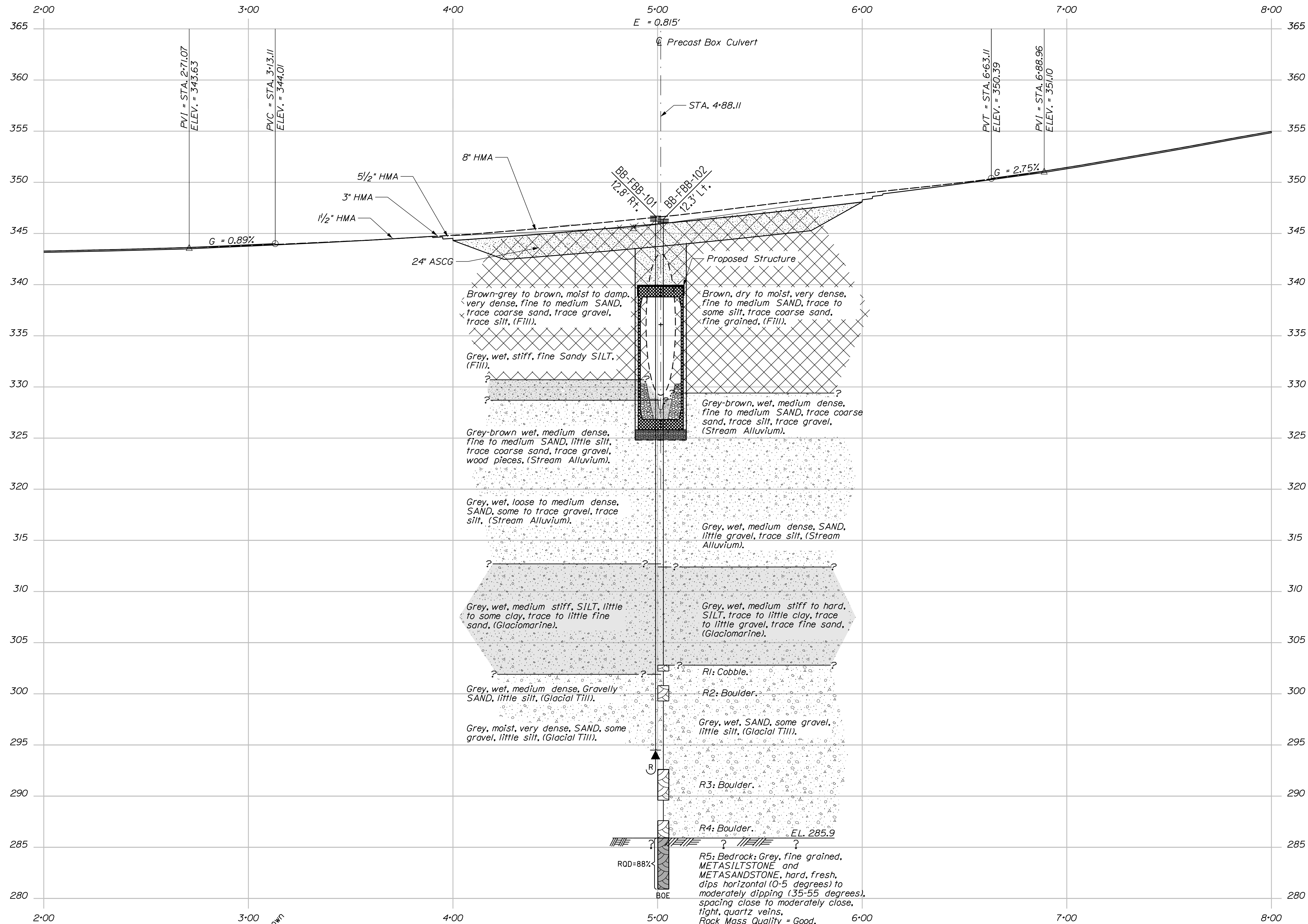
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Division: BRIDGE

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STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
FARMINGTON		FRANKLIN COUNTY	
GOWER FARM BRIDGE		BEALES BROOK	
BORING LOCATION PLAN		SHEET NUMBER	
5		NHP-2188(000)	
BRIDGE NO. 2324		WIN	
21880.00		BRIDGE PLANS	
PROJ. MANAGER	J. KITREDE	BY	J. LEVITT
CHECKED-REVIEWED	R. NAJOS	DATE	8/24/2017
DESIGN-DETAILED	A. VANBUSKIRK	SIGNATURE	
DESIGN-DETAILED	T. WHITE	P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



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.

STATE OF MAINE				DEPARTMENT OF TRANSPORTATION							
NHP-2188(000)				SIGNATURE							
WIN				P.E. NUMBER							
BRIDGE NO. 2324				DATE							
BRIDGE PLANS				21880.00							
GOWER FARM BRIDGE BEALES BROOK FRANKLIN COUNTY FARMINGTON								PROJ. MANAGER	J. R. KITTREDGE	BY	DATE
								DESIGN-DETAILED	R. MAOUS	J. LEAVITT	8.24.2017
								CHECKED-REVIEWED			
								DESIGN2-DETAILED	A. VANBUSKIRK	T. WHITE	JUL. 2018
								DESIGN3-DETAILED	3		
INTERPRETIVE SUBSURFACE PROFILE								REVISIONS 1			
								REVISIONS 2			
								REVISIONS 3			
								REVISIONS 4			
								FIELD CHANGES			
SHEET NUMBER								6			
OF 24											

Stratification lines represent approximate boundaries between soil type transitions may be gradual.

Page 1 of 1

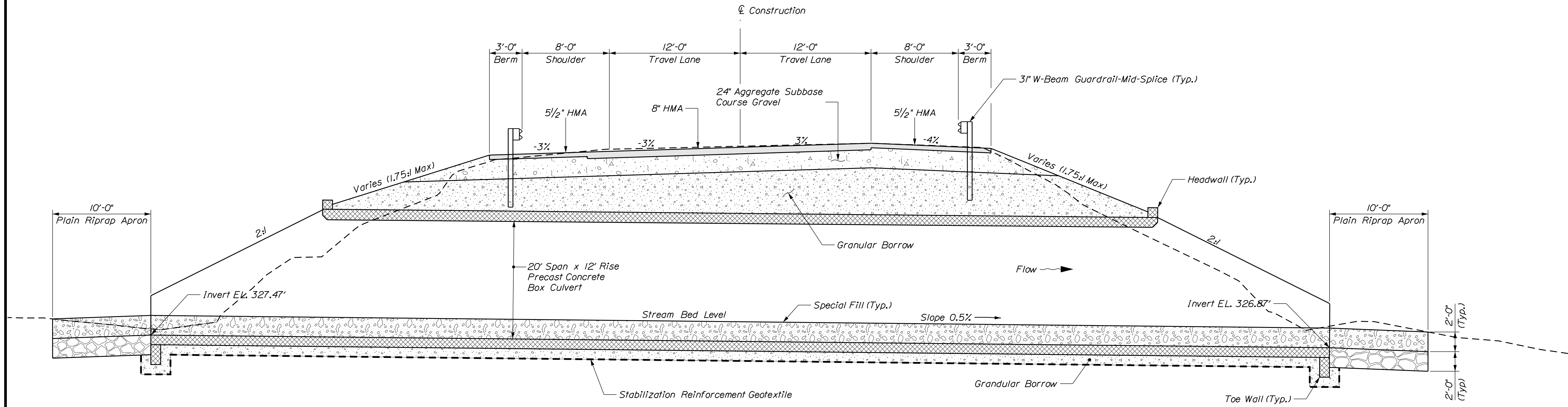
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Boring No.: BB-FBB-101

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.

Boring No.: 8B-FBB-102



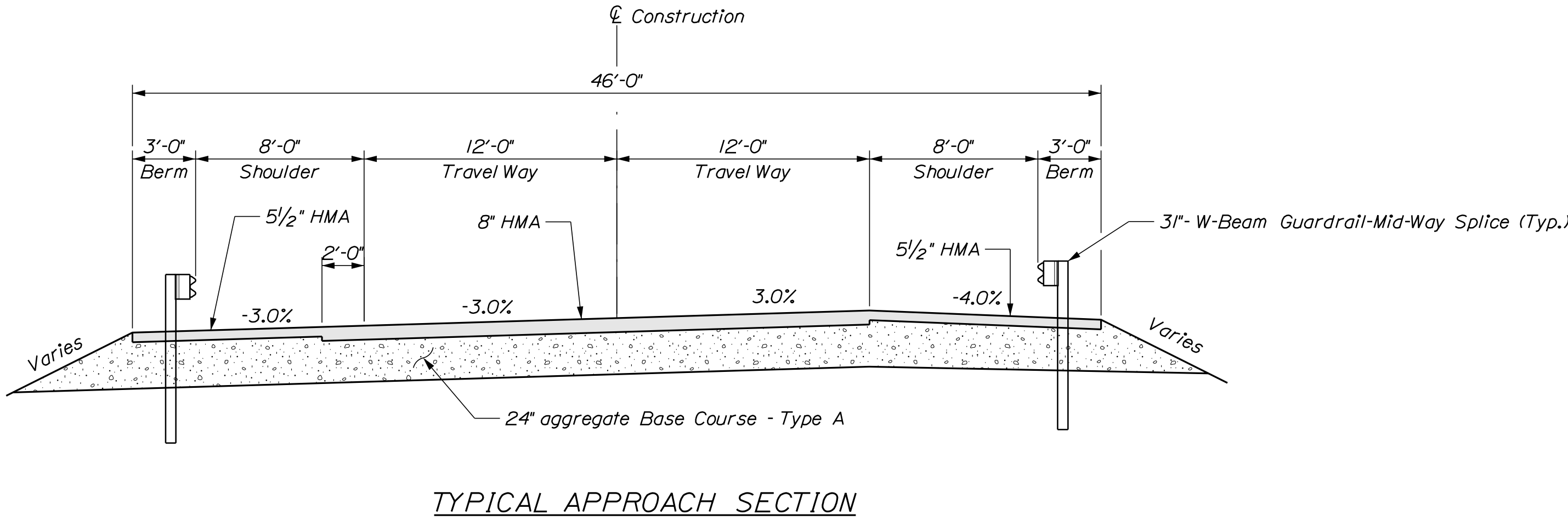
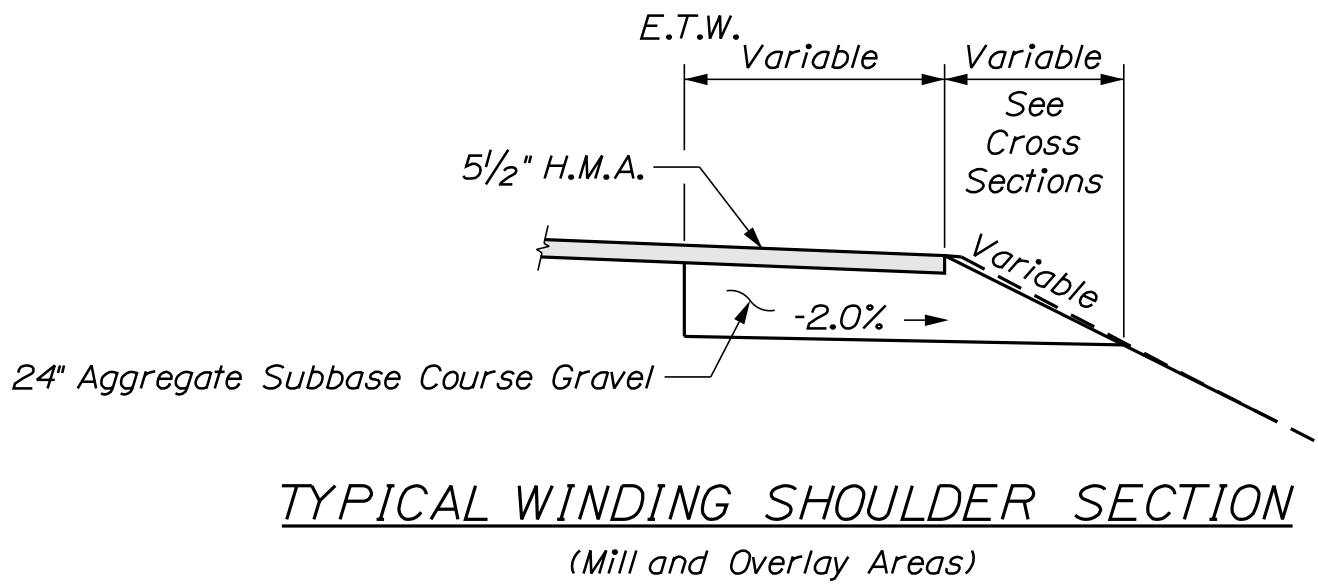
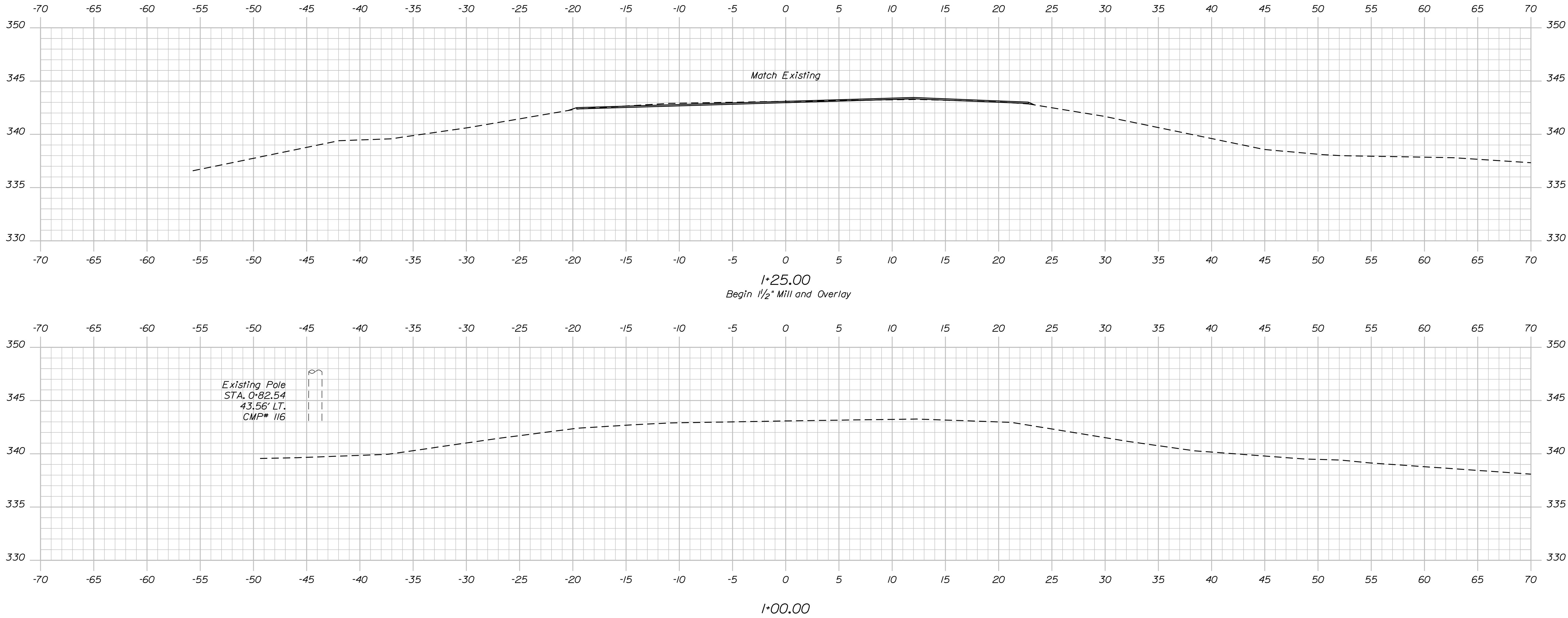
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		DESIGN-DETAILED	R. MADUS	J. LEAVITT	3/28/2019	SIGNATURE			
		CHECKED-REVIEWED	D. EATON	M. POULIN	9/13/2018				
		DESIGN2-DETAILED2							
		DESIGN3-DETAILED3					P.E. NUMBER		
		REVISIONS 1							
		REVISIONS 2							
		REVISIONS 3							
		REVISIONS 4				DATE			
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BRIDGE NUMBER 2324								WIN 21880.00	BRIDGE PLANS

Date:9/19/2019

Username: Devon.C.Eaton

Division: BRIDGE

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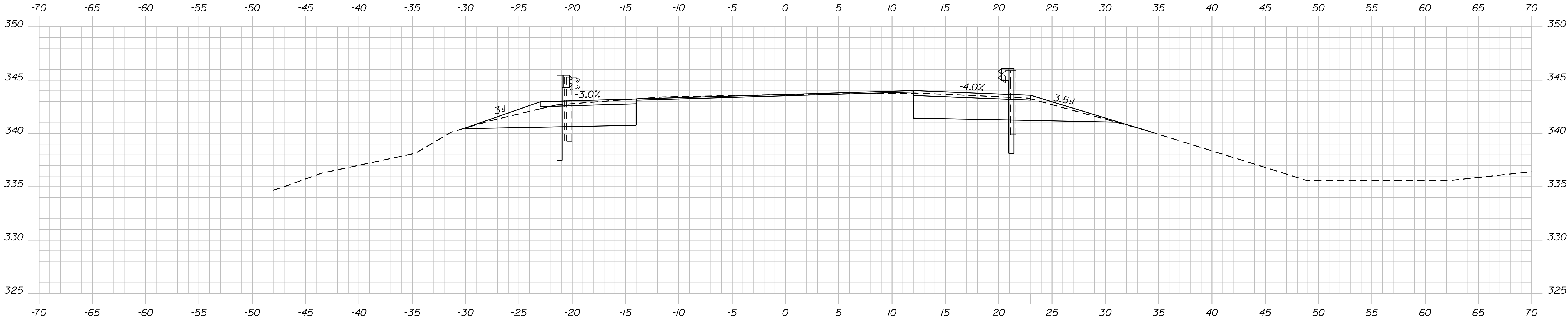
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CROSS SECTIONS										REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES								P.E. NUMBER					
																		DATE					
SHEET NUMBER										10		OF 24		STATE OF MAINE DEPARTMENT OF TRANSPORTATION NHP-2188(000) WIN 21880.00 BRIDGE NO. 2324 BRIDGE PLANS									

Date:9/19/2019

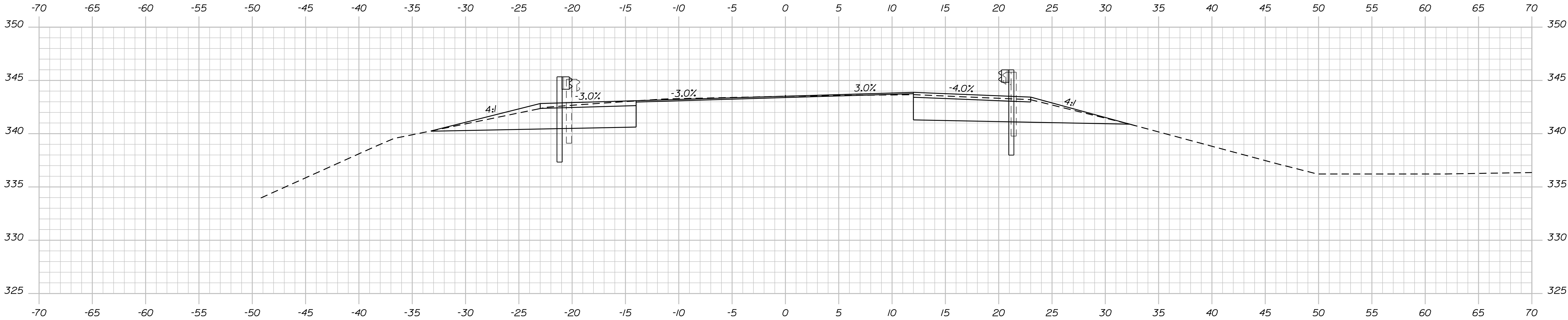
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Division: BRIDGE

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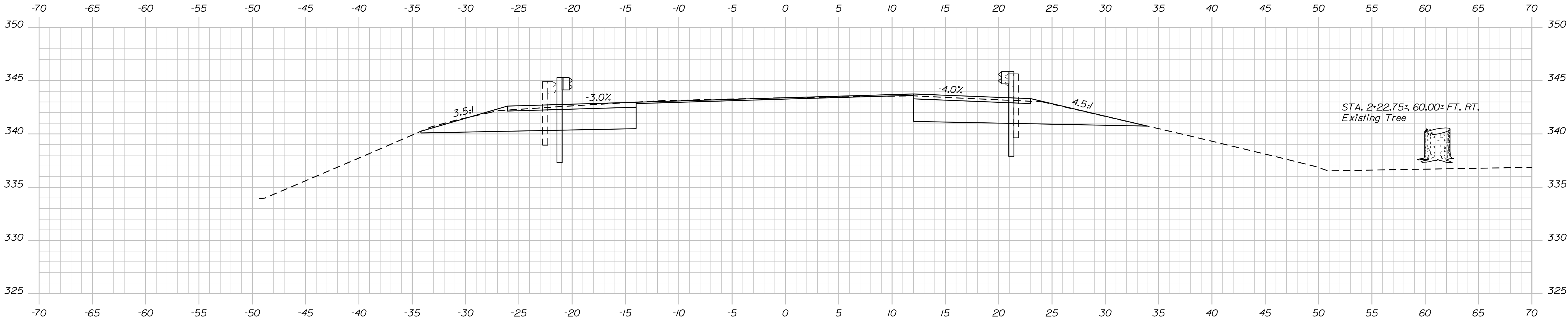


2+75.00



2+50.00

Sta. 2+40.63, 20.00' Lt. To Sta. 7+09.37, 20.00' Lt.
Install 3" W-Beam Guardrail- Mid-Way-Splice



2+25.00

Sta. 2+03.15, 24.35' Lt. To Sta. 2+40.63, 20.00' Lt.
Install 3" W-Beam Guardrail- Mid-Way-Splice Flared Terminal

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE	
	P.E. NUMBER	
	DATE	

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	R. NAJIS	J. LEAVITT	3/28/2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9/13/2019
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

GOWER FARM BRIDGE BEALES BROOK FRANKLIN COUNTY FARMINGTON	CROSS SECTIONS
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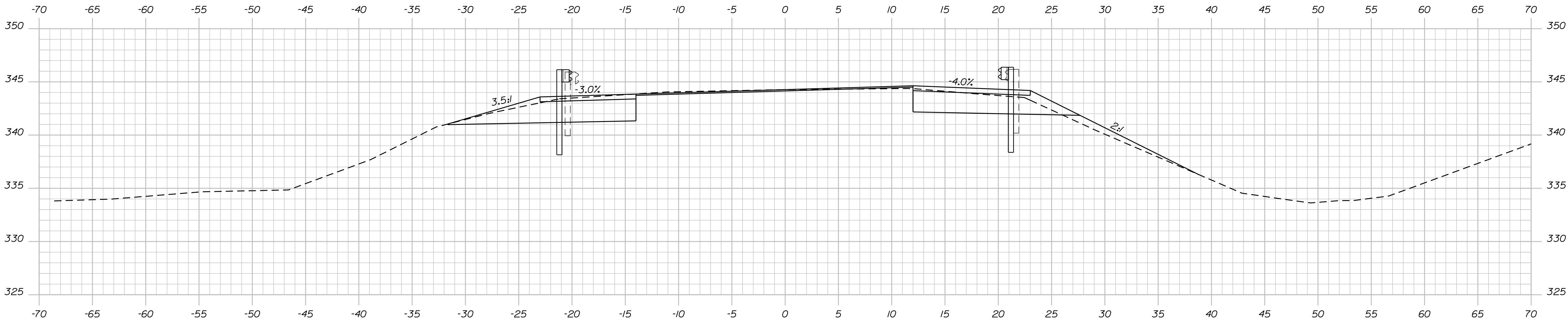
SHEET NUMBER
12
OF 24

Date:9/19/2019

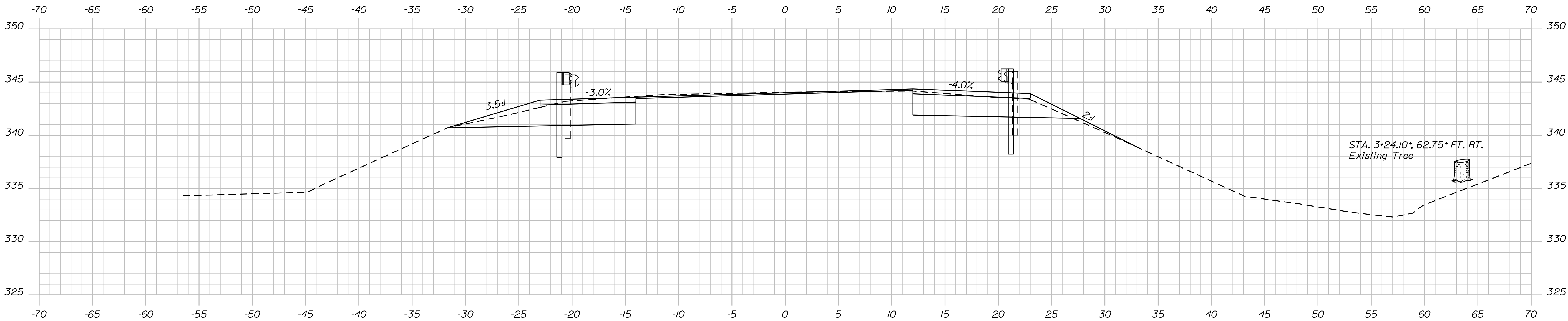
Username: Devon.C.Eaton

Division: BRIDGE

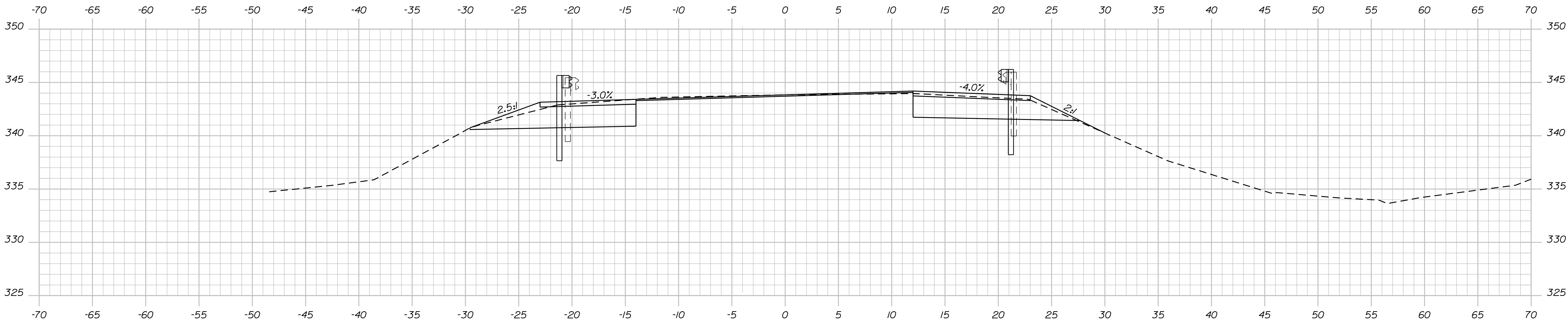
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3+50.00



3+25.00



3+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-2188(000)

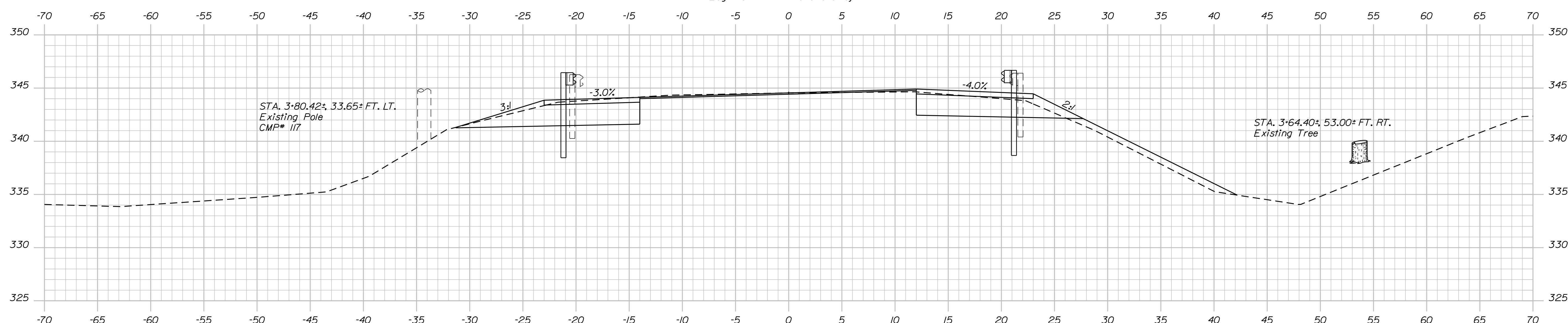
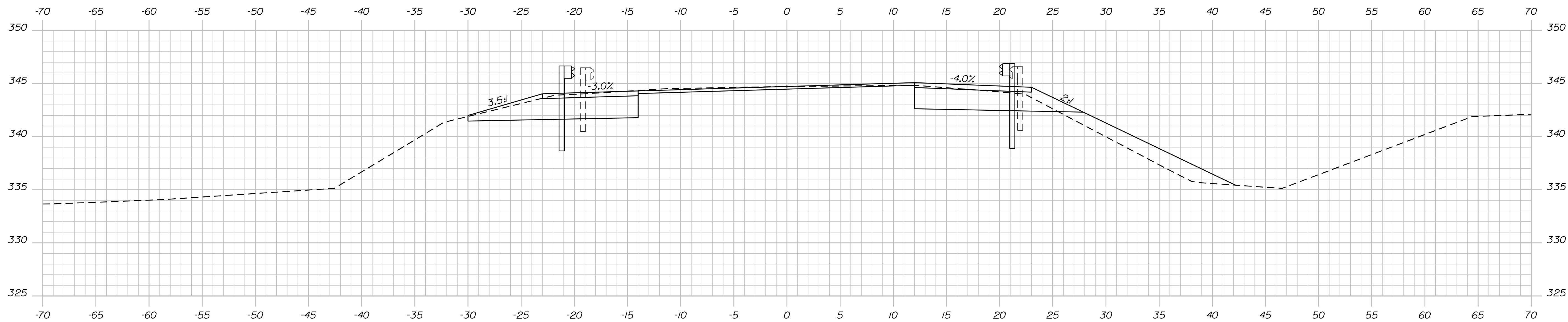
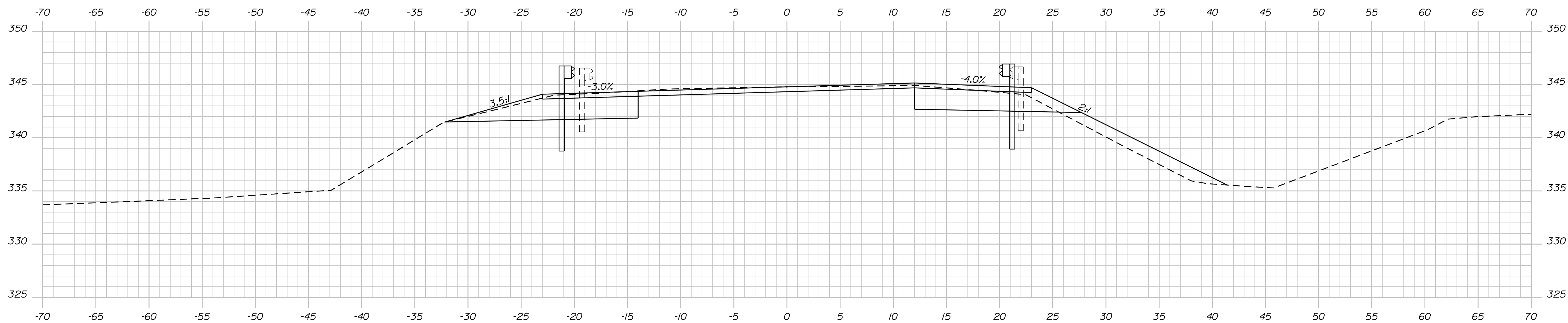
BRIDGE NO. 2324WIN21880.00BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	R. NAQUIS	J. LEAVITT	3/28/2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9/13/2019
DESIGNS-DETAILED			SIGNATURE
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

GOWER FARM BRIDGE
BEALES BROOK
FARMINGTONFRANKLIN COUNTY

SHEET NUMBER
13
OF 24

CROSS SECTIONS



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
NHPP-2188(000)	
BRIDGE NO. 2324	WIN 21880.00
BRIDGE PLANS	

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	R. NAOUS	J. LEAMITT	3.28.2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9.13.2019
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
			SIGNATURE
			P.E. NUMBER
			DATE

GOWER FARM BRIDGE	FRANKLIN COUNTY
BEALES BROOK	
FARMINGTON	
CROSS SECTIONS	

SHEET NUMBER

14

OF 24

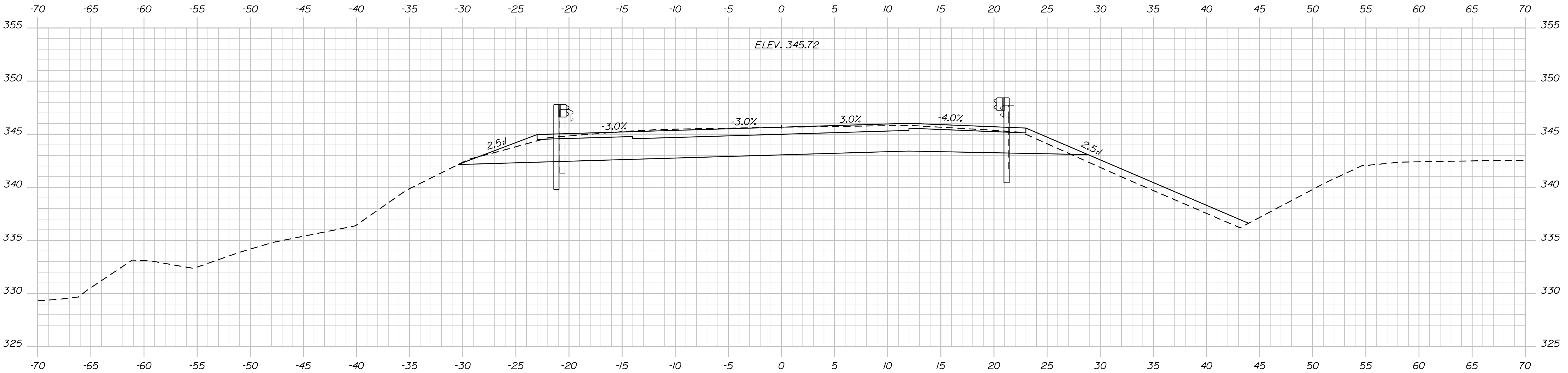
Sta. 3+75.00 to Sta. 3+95.00

Date:9/19/2019

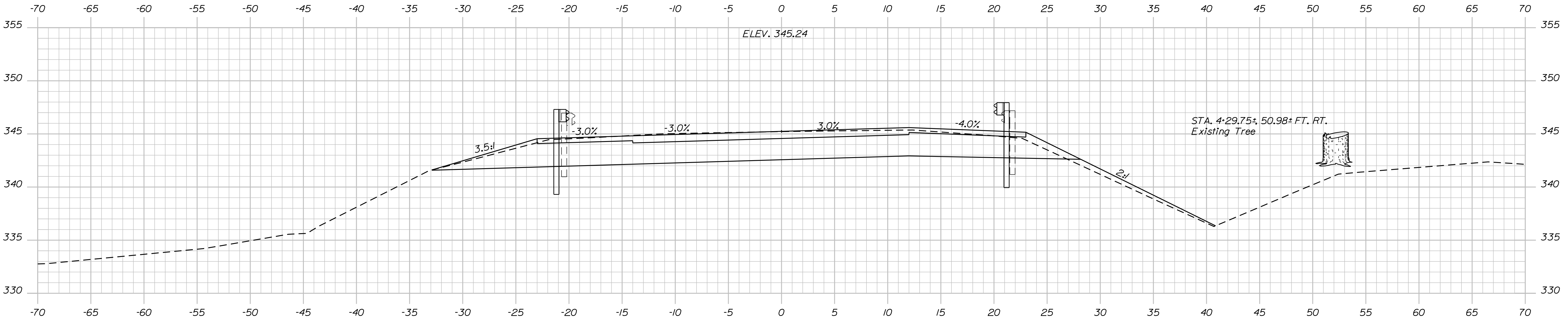
Username: Devon.C.Eaton

Division: BRIDGE

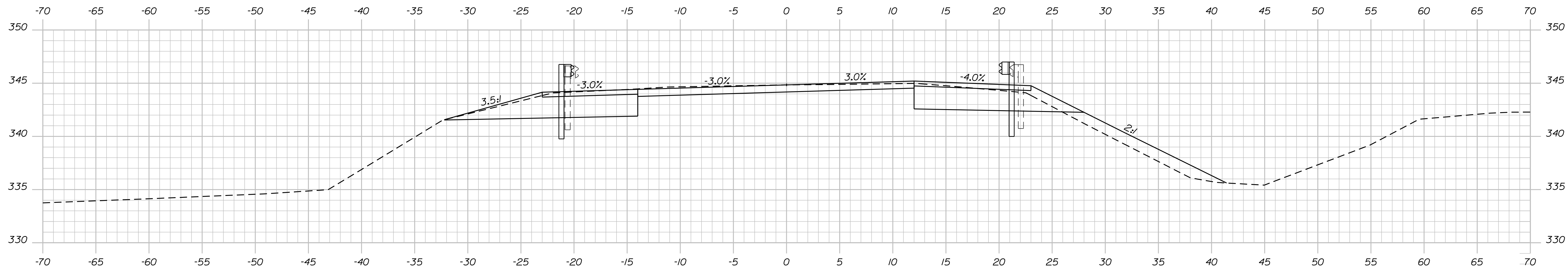
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4+50.00



4+25.00
End Transition Begin Project and 8" Mill and Overlay



4+00.00
End 5 1/2" HMA Mill and Overlay
Begin Transition and 8" HMA

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NHP-2188(000)
WIN
21880.00
BRIDGE NO. 2324
BRIDGE PLANS

PROJ. MANAGER	DESIGNED-Detailed	CHECKED-Reviewed	DATE	BY	DATE
	R. NAJOS	D. EATON	3/28/2019	J. LEAVITT	3/28/2019
DESIGNED-Detailed					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

FARMINGTON
BEALES BROOK
GOWER FARM BRIDGE
FRANKLIN COUNTY

CROSS SECTIONS

SHEET NUMBER
15
OF 24

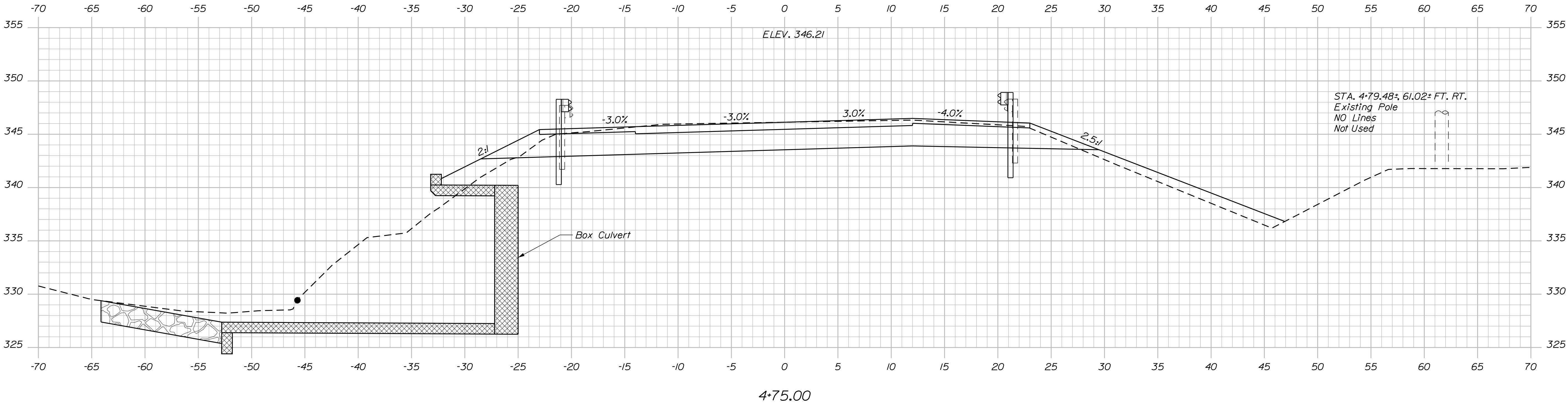
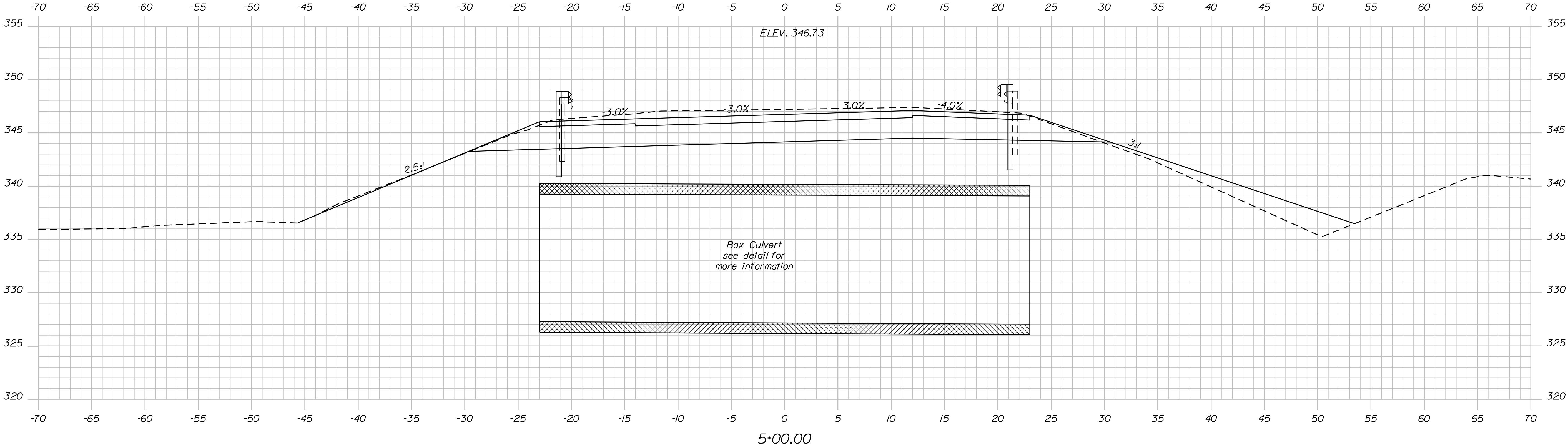
BRIDGE PLANS

Date:9/19/2019

Username: Devon C.Eaton

Division: BRIDGE

Filename: ... \MSTAO16_XSECT_4+75_007.dgn



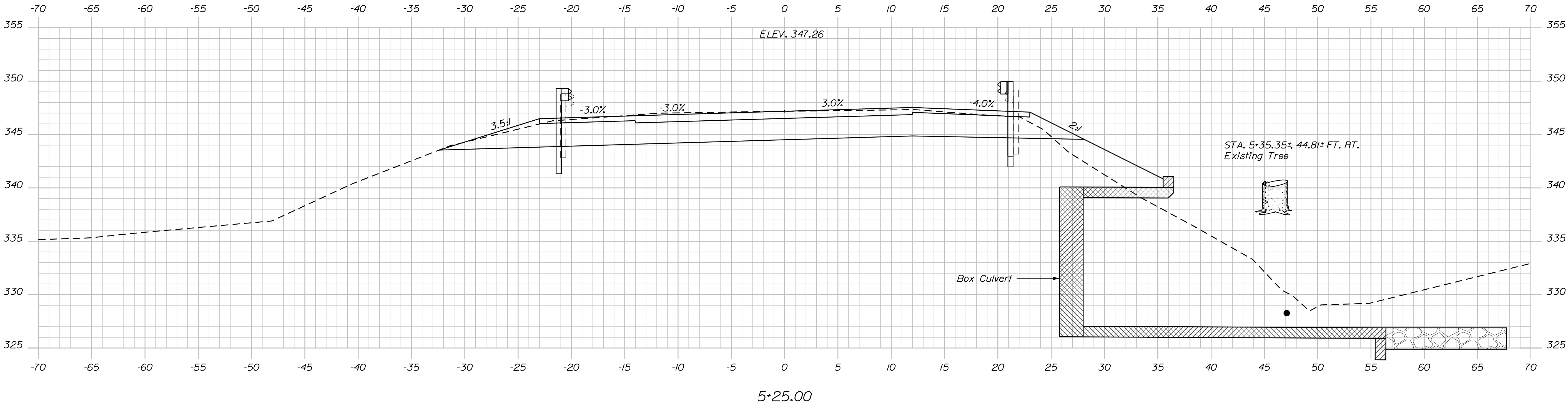
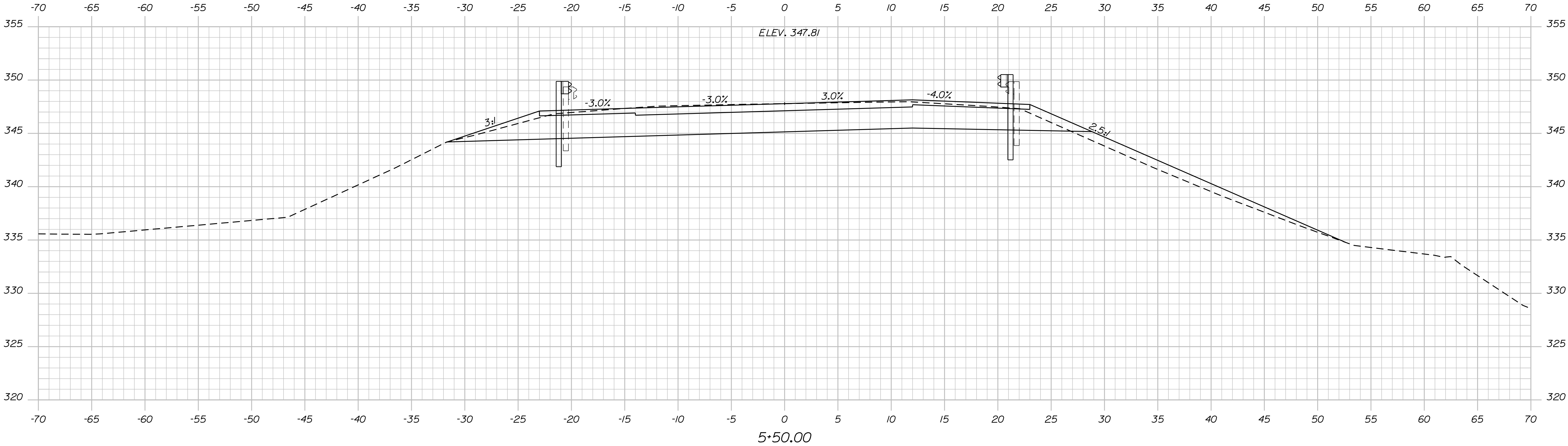
PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	R. NAQUIS	J. LEAVITT	3.28.2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9.13.2019
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Username: Devon.C.Eaton

Date:9/19/2019

Division: BRIDGE

Filename: ... \MSTAO17_XSECT_5+25_008.dgn



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	NHP-2188(000)	
	WIN	21880.00
	BRIDGE NO. 2324	BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	R. NAJIS	J. LEAVITT	3/28/2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9/13/2019
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

GOWER FARM BRIDGE BEALES BROOK FRANKLIN COUNTY FARMINGTON	CROSS SECTIONS
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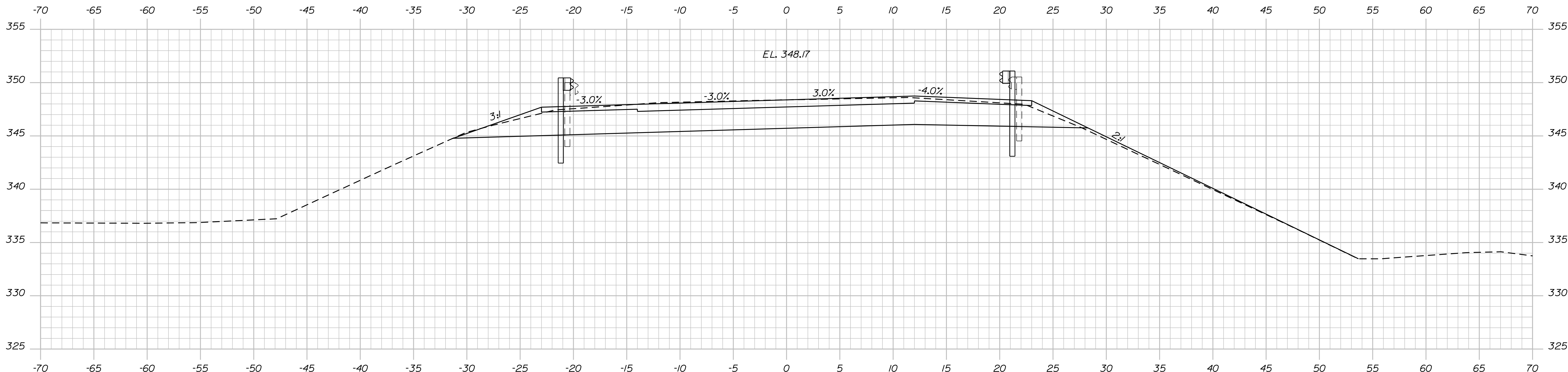
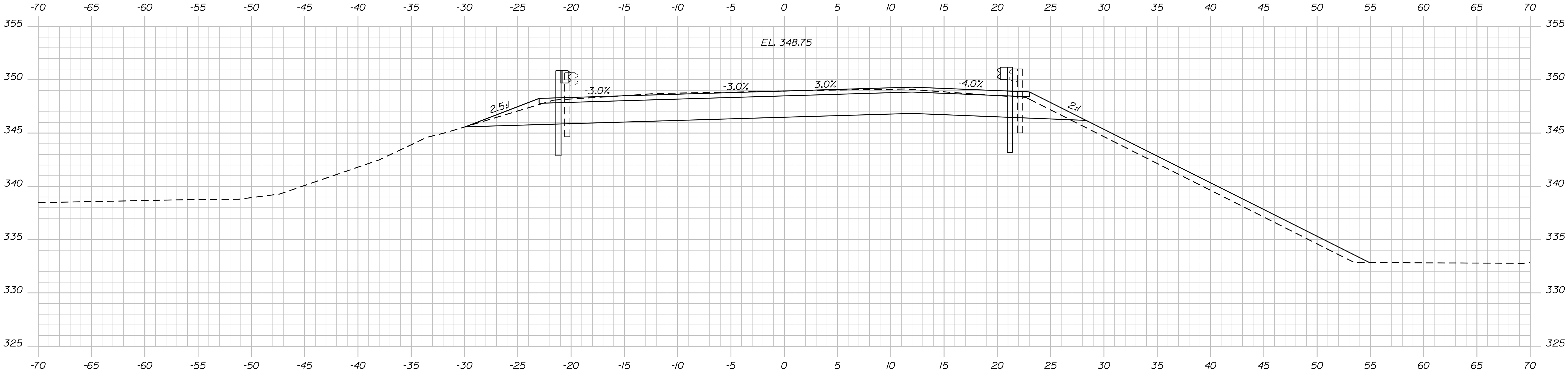
SHEET NUMBER
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OF 24

Date:9/19/2019

Username: Devon.C.Eaton

Division: BRIDGE

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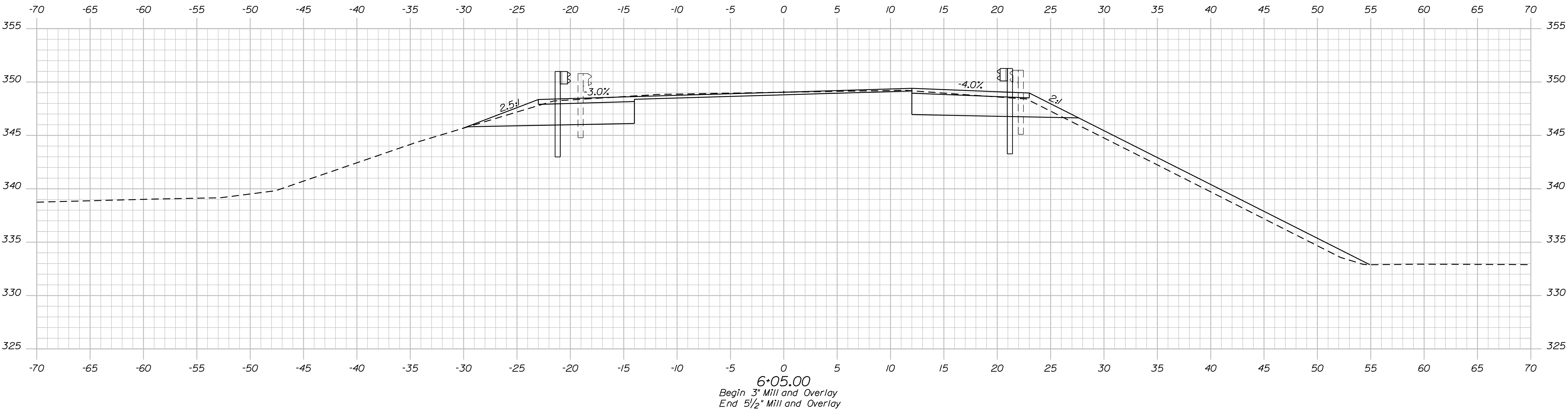
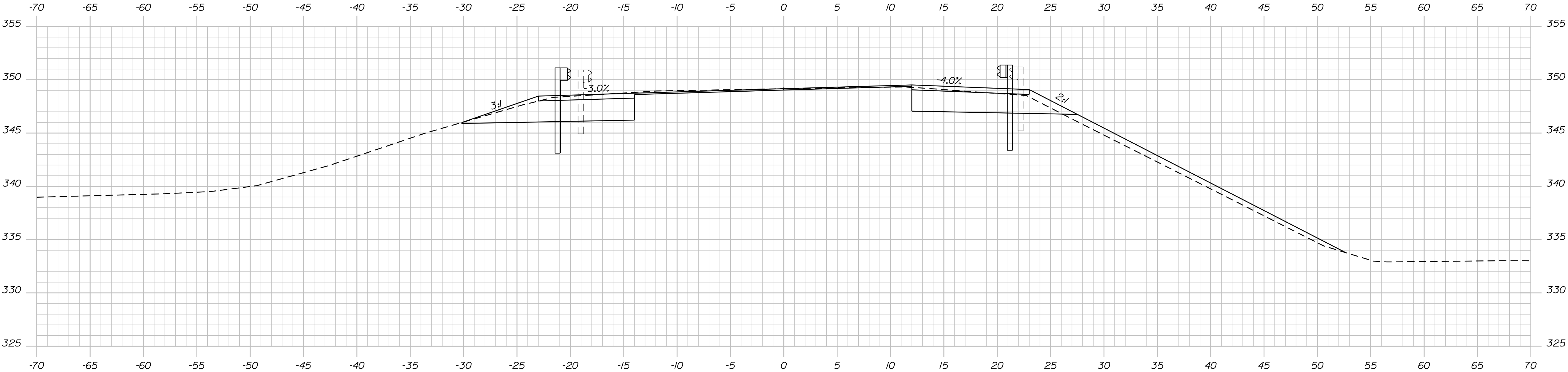
PROJ. MANAGER	D. EATON	BY	DATE
CHECKED-REVIEWED	R. NAJOS D. EATON	J. LEAVITT M. POULIN	3/28/2019 9/13/2019
DESIGN-DETAILED			SIGNATURE
DESIGNS DETAILED			P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date:9/19/2019

Username: Devon.C.Eaton

Division: BRIDGE

Filename: ... \MSTAO19_XSECT_5+85_010.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NHPP-2188(000)
BRIDGE NO. 2324
WIN
21880.00
BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
CHECKED-REVIEWED	R. NAJIS	J. LEAVITT	3.28.2019
DESIGNED-DETAILED	D. EATON	M. POULIN	9.13.2019
DESIGN SIGNATURE			
REVISIONS 1			
REVISIONS 2			
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REVISIONS 4			
FIELD CHANGES			

GOWER FARM BRIDGE	FRANKLIN COUNTY
BEALES BROOK	
FARMINGTON	
CROSS SECTIONS	

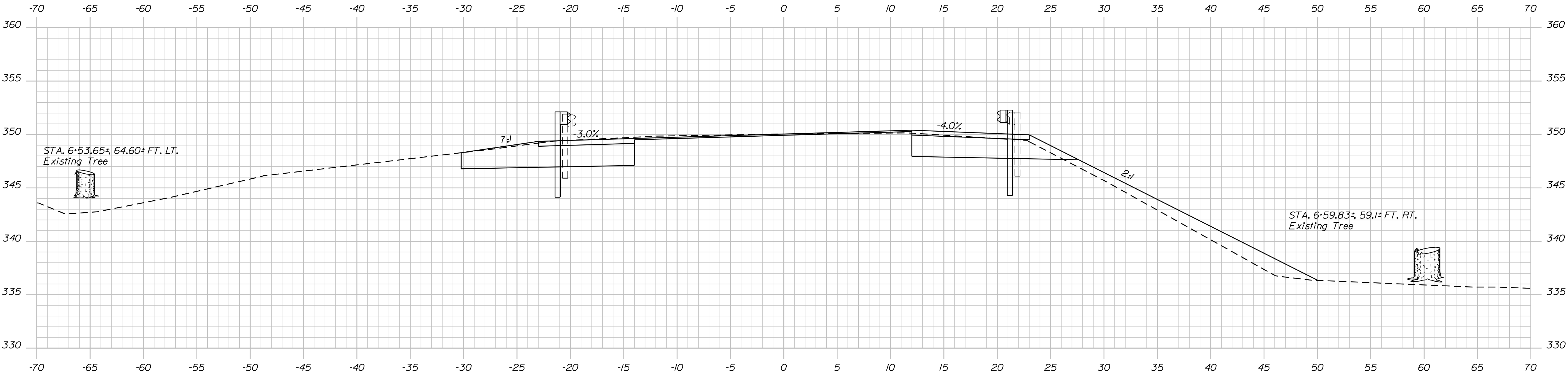
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OF 24

Date:9/19/2019

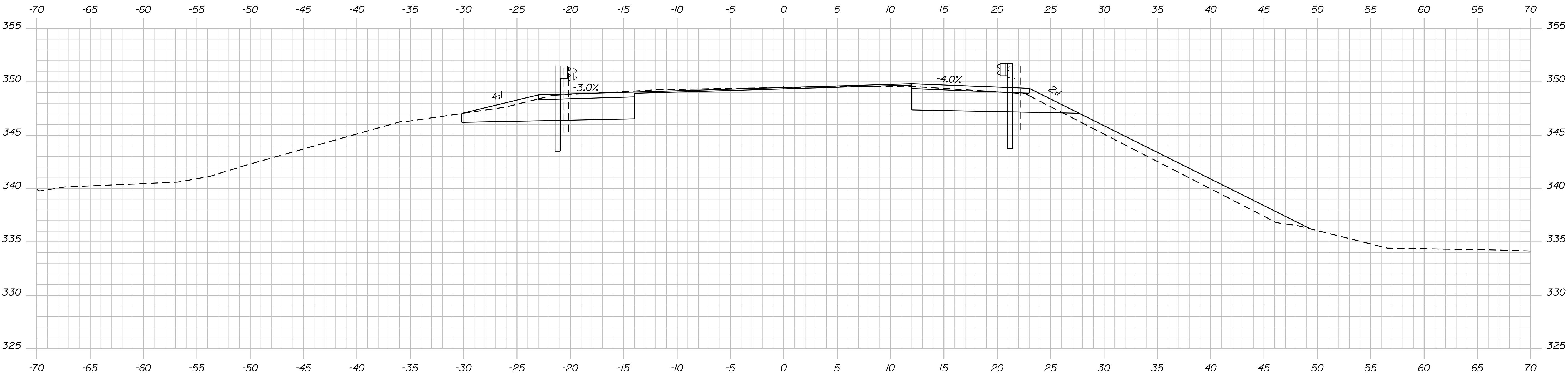
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Division: BRIDGE

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6+50.00



6+25.00

PROJ. MANAGER	D. EATON	BY	DATE
CHECKED-REVIEWED	R. NAJUS	J. LEAVITT	3.28.2019
DESIGN-DETAILED	D. EATON	M. POULIN	9.13.2019
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

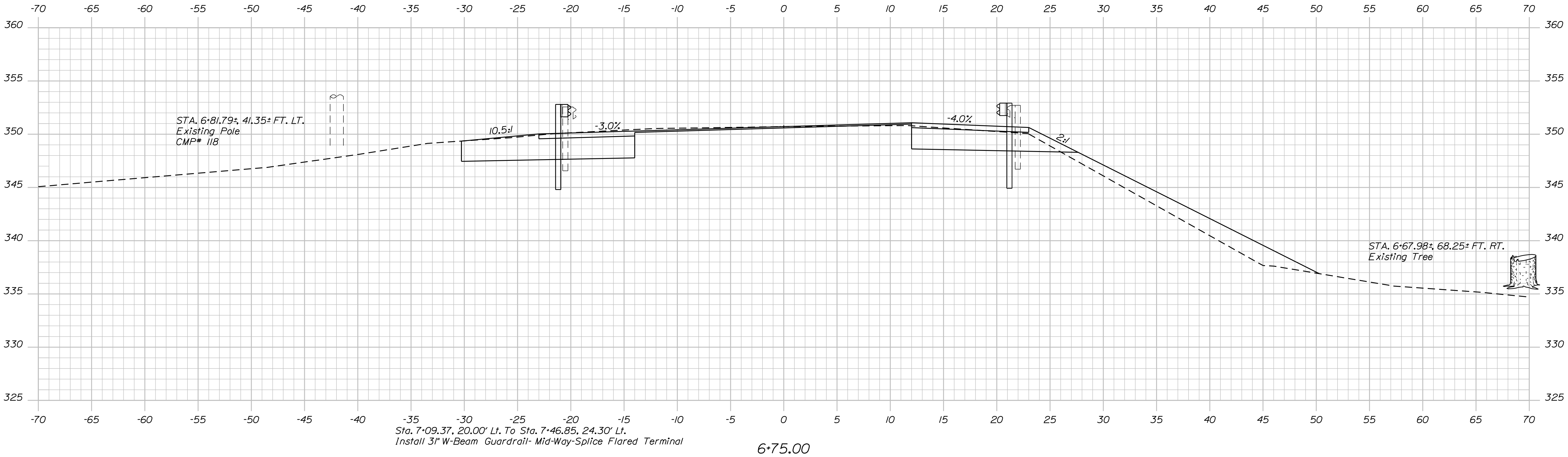
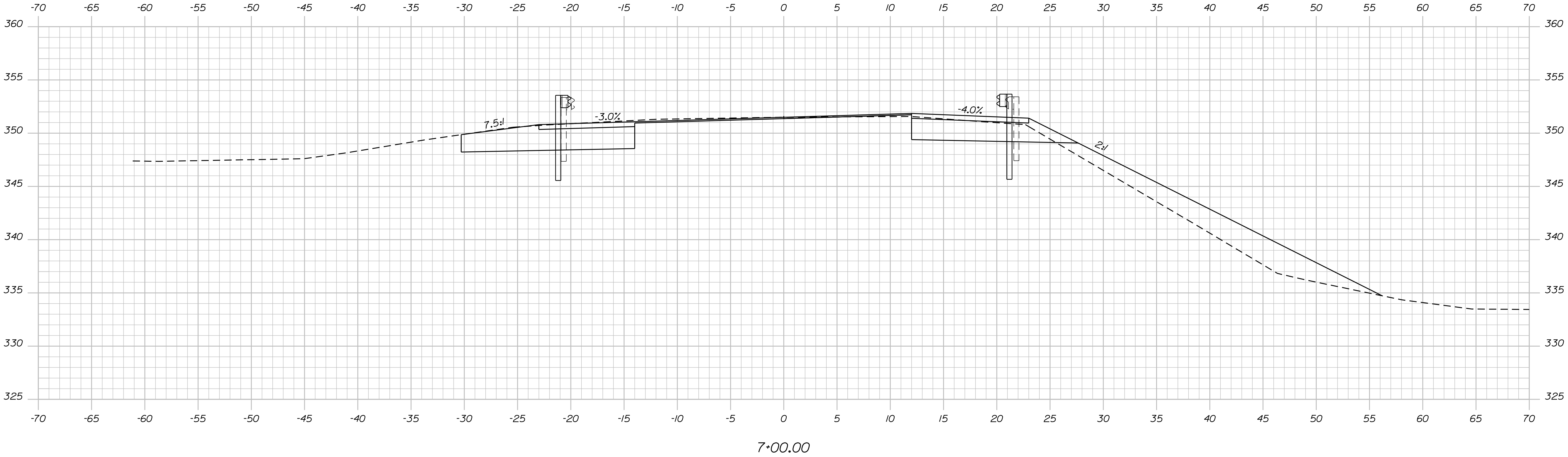
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Username: Devon.C.Eaton

Date:9/19/2019

Division: BRIDGE

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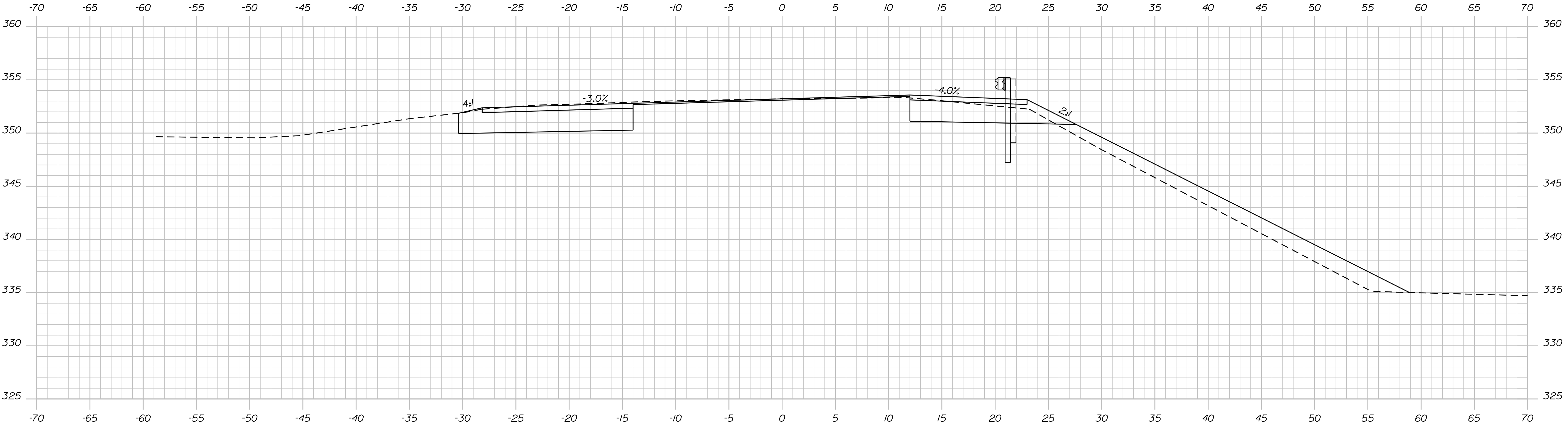
PROJ. MANAGER	D. EATON	BY	DATE
CHECKED-DETAILED	R. NAJUS	J. LEAVITT	3.28.2019
CHECKED-REVIEWED	D. EATON	M. POULIN	9.13.2019
DESIGN-DETAILED			SIGNATURE
DESIGN-REVIEWED			P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date:9/19/2019

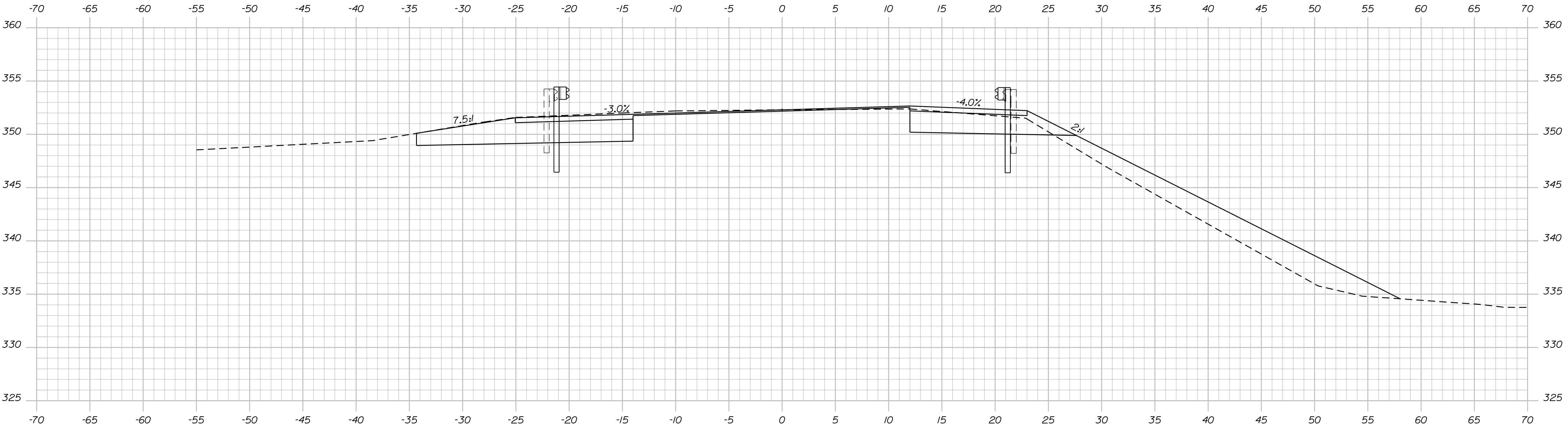
Username: Devon.C.Eaton

Division: BRIDGE

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7+50.00



7+25.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	NHP-2188(000)	
	WIN	21880.00
BRIDGE NO. 2324		
BRIDGE PLANS		

PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	D. EATON R. NAJOS D. EATON	BY J. LEAVITT M. POULIN	DATE 3/28/2019 9/13/2019
			SIGNATURE P.E. NUMBER DATE

GOWER FARM BRIDGE BEALES BROOK FRANKLIN COUNTY FARMINGTON	CROSS SECTIONS

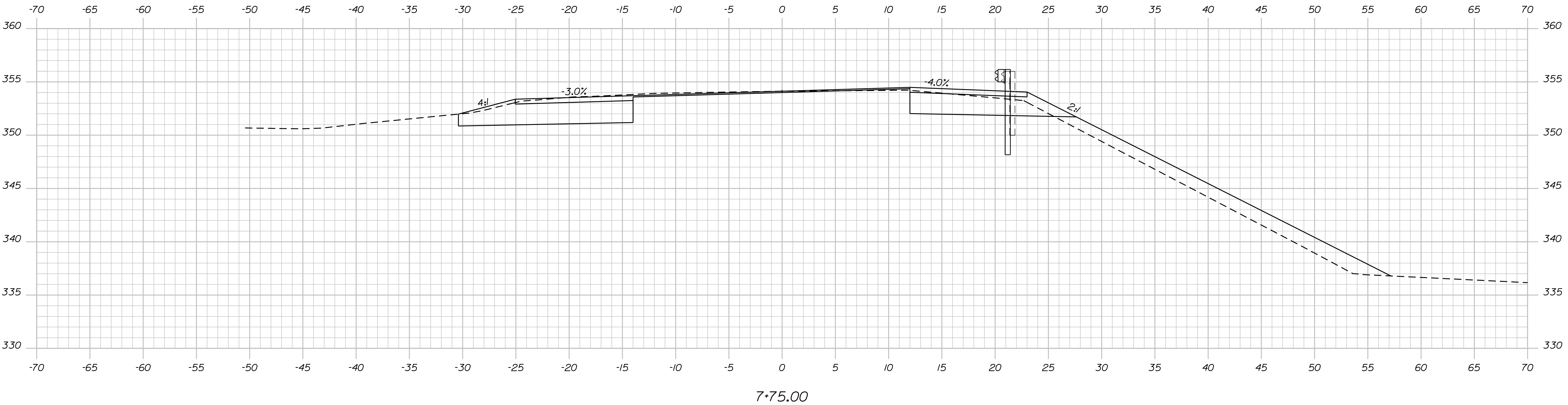
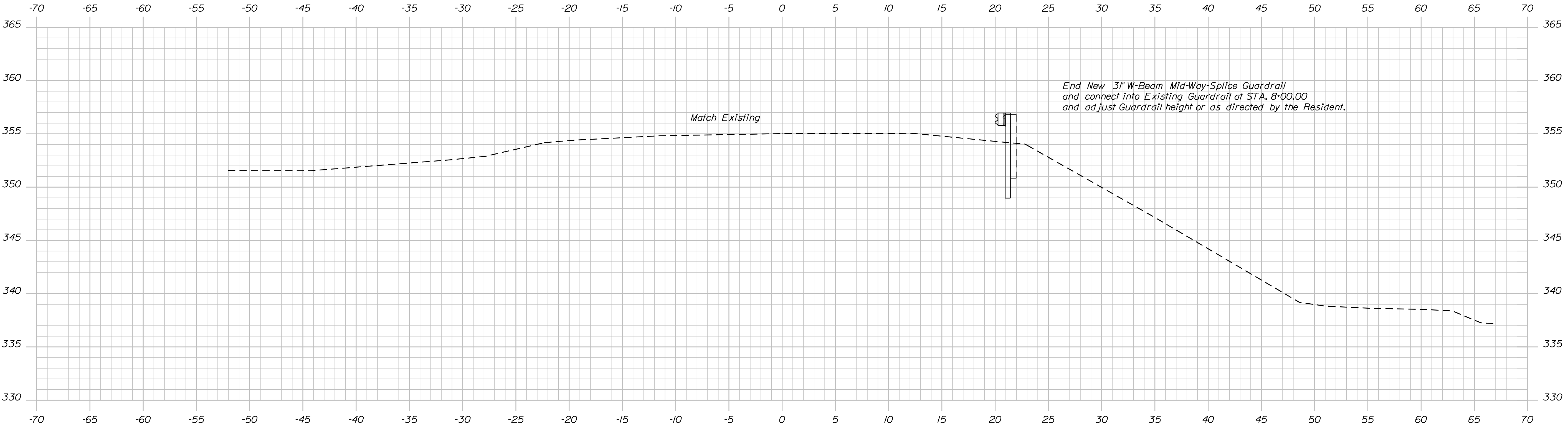
SHEET NUMBER
22
OF 24

Date:9/19/2019

Username: Devon.C.Eaton

Division: BRIDGE

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	NHP-2188(000)	
	WIN	21880.00
BRIDGE NO. 2324		
BRIDGE PLANS		

PROJ. MANAGER	D. EATON	BY	DATE	
DESIGN-DETAILED	R. NAJOS	J. LEAVITT	3/28/2019	
CHECKED-REVIEWED	D. EATON	M. POULIN	9/13/2019	SIGNATURE
DESIGN-DETAILED2				
DESIGN-DETAILED3				P.E. NUMBER
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				DATE
FIELD CHANGES				

GOWER FARM BRIDGE BEALES BROOK FRANKLIN COUNTY FARMINGTON	CROSS SECTIONS

SHEET NUMBER
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OF 24

