

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



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SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017 with 2018 Interim Revisions.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2014) AADT	1800
Future (2040) AADT	1980
DHV - % of AADT	11%
Design Hour Volume	218
Heavy Trucks (% of AADT)	7%
Heavy Trucks (% of DHV)	3%
Directional Distribution (% of DHV)	61%
18 kip Equivalent P 2.0	60
18 kip Equivalent P 2.5	57
Design Speed (mph)	45

HYDROLOGIC DATA

Drainage Area	6.4 sq mi
Design Discharge (Q50)	695.2 cfs
Check Discharge (Q100)	814.6 cfs
Headwater Elevation (Q50)	147.54 ft
Headwater Elevation (Q100)	148.29 ft
Discharge Velocity (Q50)	17.89 fps
Discharge Velocity (Q100)	18.50 fps
Headwater Elevation (Q1.1)	142.99 ft
Discharge Velocity (Q1.1)	11.56 fps

MATERIALS

Concrete:	
Precast	Class "P"
All Other	Class "A"
Reinforcing Steel	ASTM A 615/A 615M, Grade 60
Welded Wire Reinforcement	ASTM A1064/A1064M

BASIC DESIGN STRESSES

Concrete	f'c = 4,000 psi
Precast Concrete	f'c = 5,000 psi
Reinforcing Steel	f y = 60,000 psi
Welded Wire Reinforcement	f y = 65,000 psi

LITCHFIELD KENNEBEC COUNTY PALMER BRIDGE OVER MAGOTTY MEADOW BROOK RICHMOND ROAD (ROUTE 197) STATE PROJECT NO. 22246.00 PROJECT LENGTH 0.025 mi. BRIDGE NO. 5141

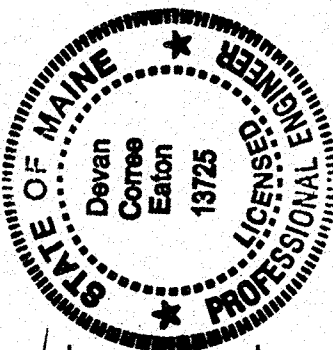
UTILITIES

Central Maine Power Company
Consolidated Communications
Spectrum

MAINTENANCE OF TRAFFIC

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

PROJECT LOCATION:	Palmer Bridge No. 5141, over Magotty Meadow Brook. Located 0.39 miles north of Bowdoin town line (Lat. 44°07'42.8"N, Long. 69°54'41.4"W).
PROGRAM AREA:	Highway Bridges - Traditional
OUTLINE OF WORK:	Culvert Replacement



SIGNATURE: *Devon Come Eaton*
P.E. NUMBER: 13725
DATE: 12-11-19

PROGRAM	BRIDGE PROGRAM
PROJECT MANAGER	D. EATON
DESIGNER	D. EATON
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

LITCHFIELD
PALMER BRIDGE
TITLE SHEET

SHEET NUMBER
1
OF 20

WIN 22246.00

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	488	SY
203.20	COMMON EXCAVATION	916	CY
203.24	COMMON BORROW	50	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	830	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	145	T
403.209	HOT MIX ASPHALT 9.5 MM (DRIVES & INCIDENTALS)	6	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	172	T
409.15	BITUMINOUS TACK COAT - APPLIED	63	G
511.07	COFFERDAM - UPSTREAM	1	LS
511.07	COFFERDAM - DOWNSTREAM	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE I (100 LF)	1	LS
531.51	BRIDGE STRUCTURE - DETAIL BUILD	1	LS
603.16	15 INCH CULVERT PIPE OPTION I	34	LF
606.1301	31" W-BM GR, MID-WAY SPLICE-SGL FACED	341	LF
606.1303	31" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	25	LF
606.1305	31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	3	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.18	STONE DITCH PROTECTION	50	CY
613.319	EROSION CONTROL BLANKET	135	SY
615.07	LOAM	75	CY
618.14	SEEDING METHOD NUMBER 2	12	UN
619.12	MULCH	12	UN
619.14	EROSION CONTROL MIX	145	CY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1425	LF
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
645.271	REGULATORY, WARNING, CONFIRMATION & RTE MKR SIGNS, TYPE I	10	SF
652.312	TYPE III BARRICADE	6	EA
652.33	DRUM	10	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGNS	500	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (60 CD)	1	LS
652.38	FLAGGER	200	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

- During construction, the road will be closed to traffic for a time period specified in the Special Provisions.
- For easements, construction limits and right of way lines, refer to Right of Way Map.
- 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.
- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- 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.
- All embankment material, except as otherwise shown, placed below EL. 143.0 shall be Granular Borrow meeting the requirements of Subsection 703.19. Material for Underwater Backfill.
- Place riprap on sideslopes up to EL. 149.0±
- Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
- 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.
- Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
- Guardrail posts as shown in the Standard Details shall be modified from the indicated length of 6 feet to a length of 8 feet with an embedment of 5.5 feet. Payment will be considered incidental to the guardrail pay items.
- 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.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:

On all concrete headwalls and concrete wall surfaces that are exposed and to limit lines, one foot beyond intersections of concrete surface with the ground.
- Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>.
- 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.
- 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.

- The project geotechnical report titled: Geotechnical Design Report for the replacement of Palmer Bridge, Richmond Road (State Route 197) over Magotty Meadow Brook, Litchfield, Maine, Soils Report 2019-46 may be accessed at the MaineDOT web address.
- 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.
- 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:
 - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - 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.
- Regulatory signs shall be installed on Route 197 approximately 0.125 miles south of Upper Pond RD. as approved by the Resident. These signs shall display the posted speed limit of 45 MPH for Route 197.

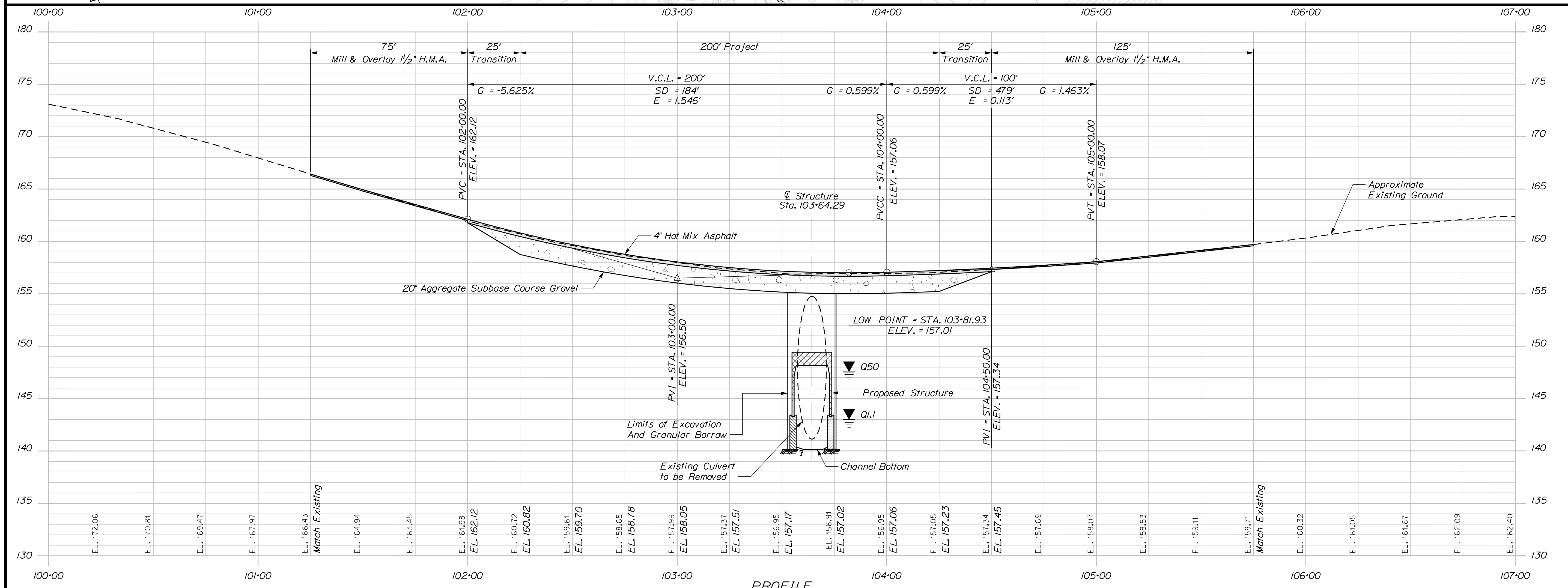
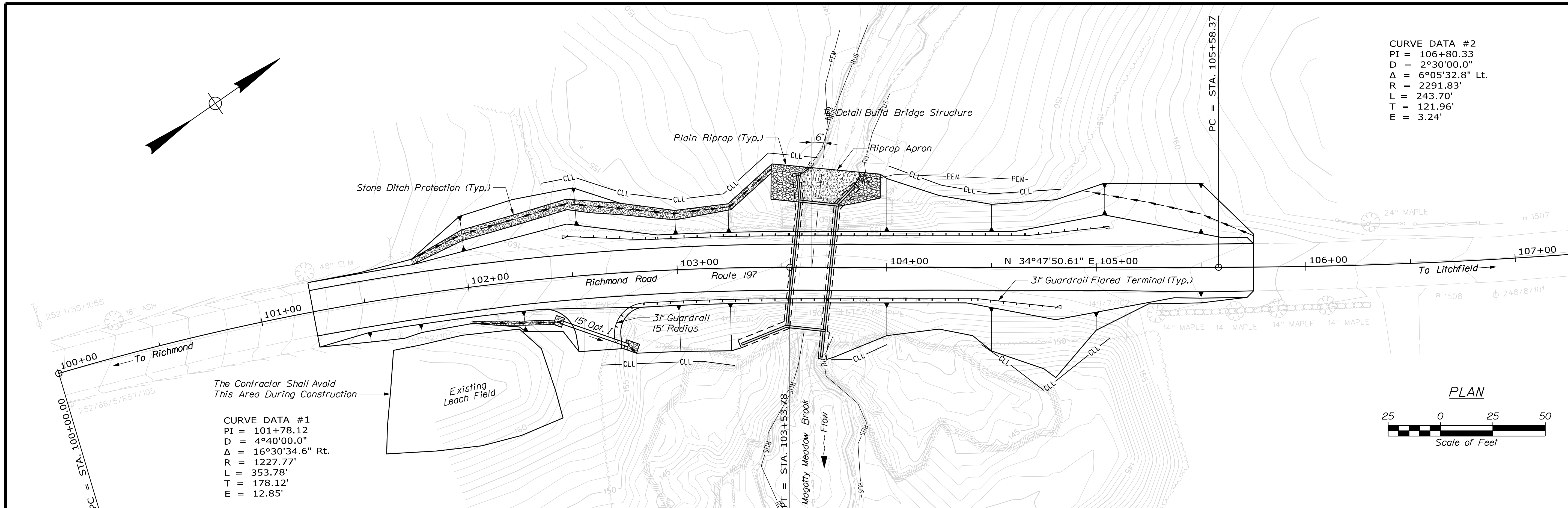
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PALMER BRIDGE		MAGOTTY MEADOW BROOK		KENNEBEC COUNTY		LITCHFIELD		ESTIMATED QUANTITIES & GENERAL CONSTRUCTION NOTES		SHEET NUMBER		2	
PROJ. MANAGER		DEVAN EATON		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		D. EATON		M.R.P.		OCT-2019		SIGNATURE		P.E. NUMBER		DATE	
CHECKED-REVIEWED		G. GUSTAFSON		J. LEVITH		OCT-2019		SIGNATURE		P.E. NUMBER		DATE	
DESIGNS-DETAILED		DESIGNS-DETAILED		DESIGNS-DETAILED		DESIGNS-DETAILED		SIGNATURE		P.E. NUMBER		DATE	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		SIGNATURE		P.E. NUMBER		DATE	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		SIGNATURE		P.E. NUMBER		DATE	

Date: 12/10/2019

Username: Mark.Poulin

Division: BRIDGE

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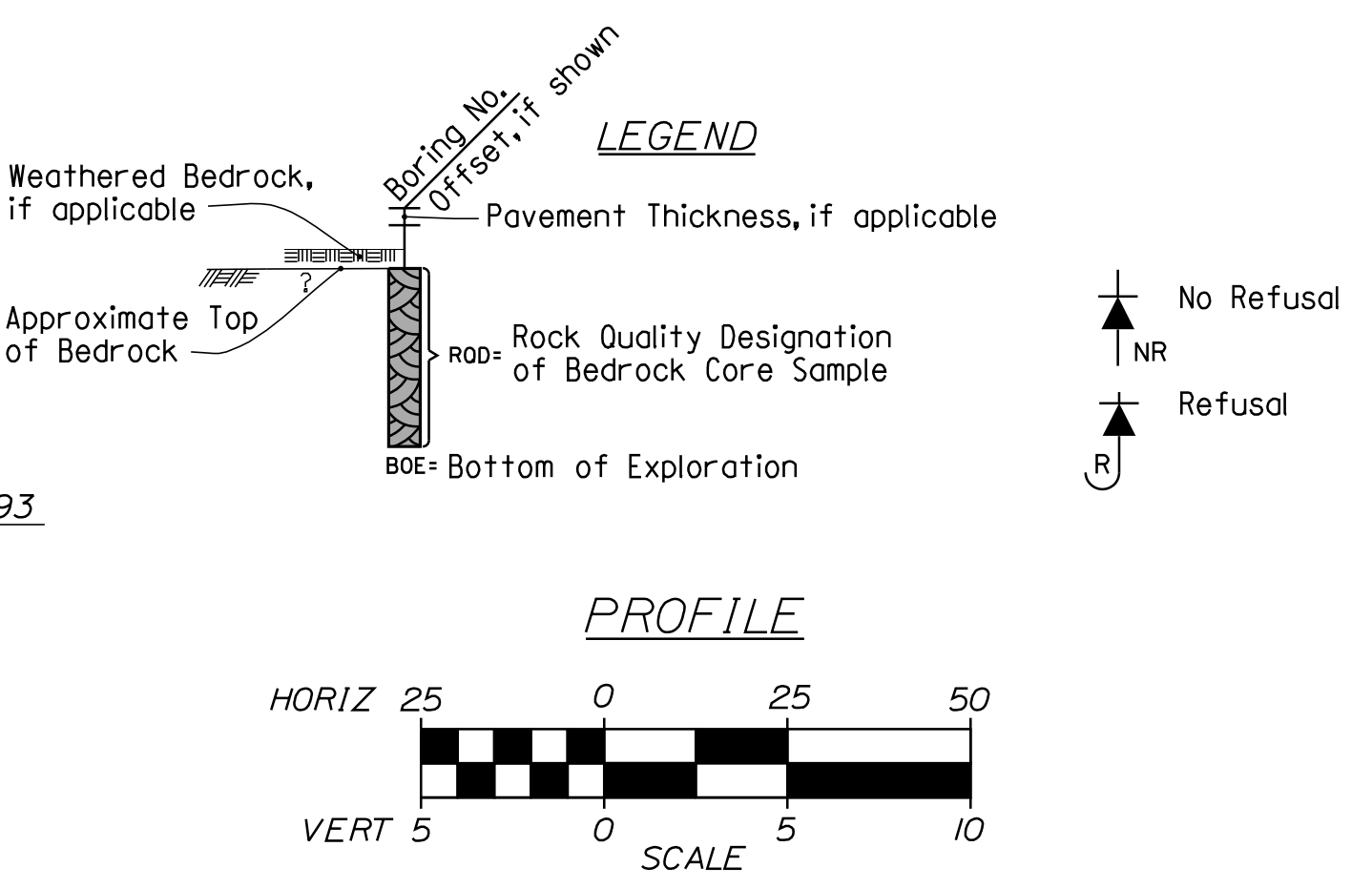
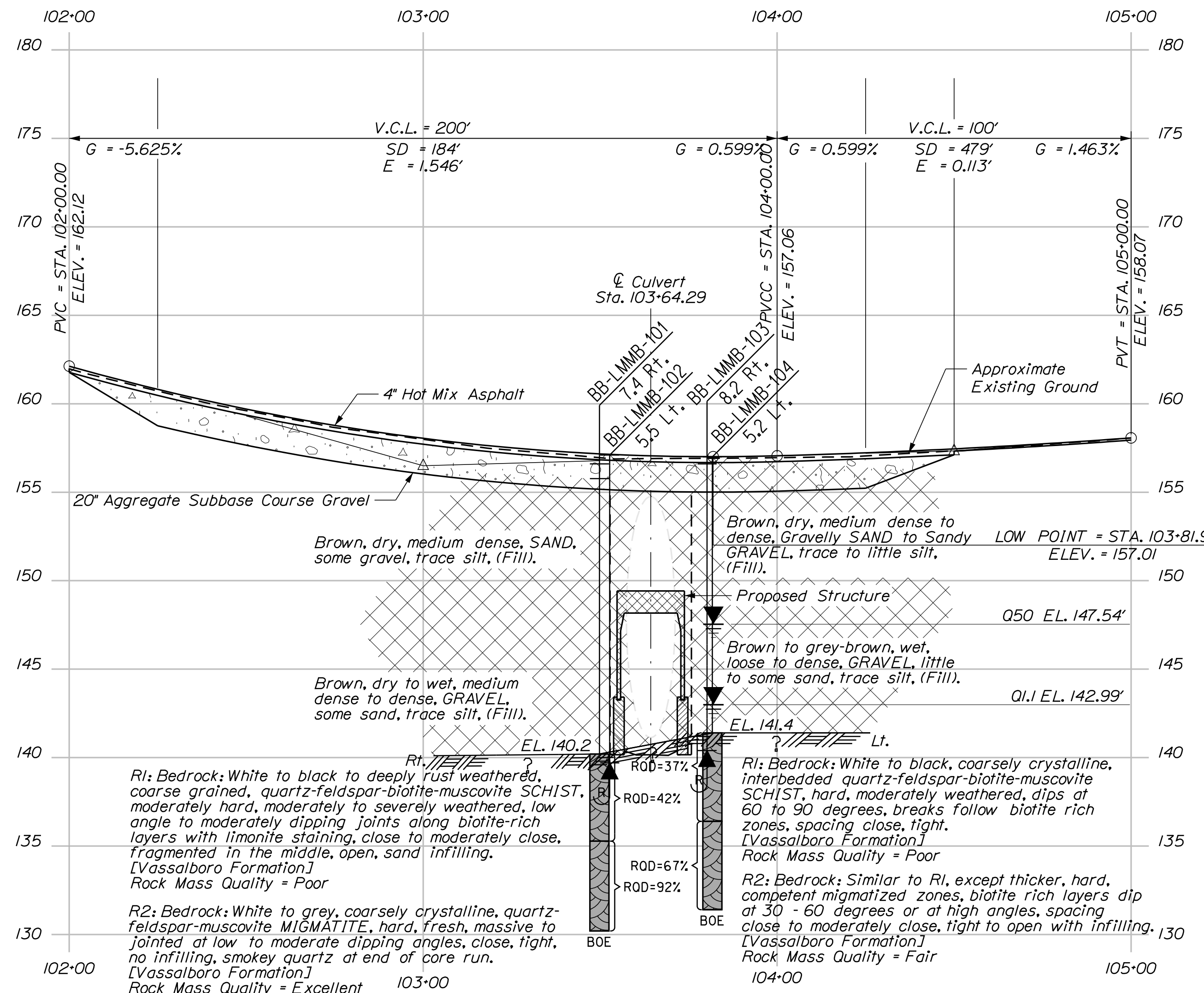
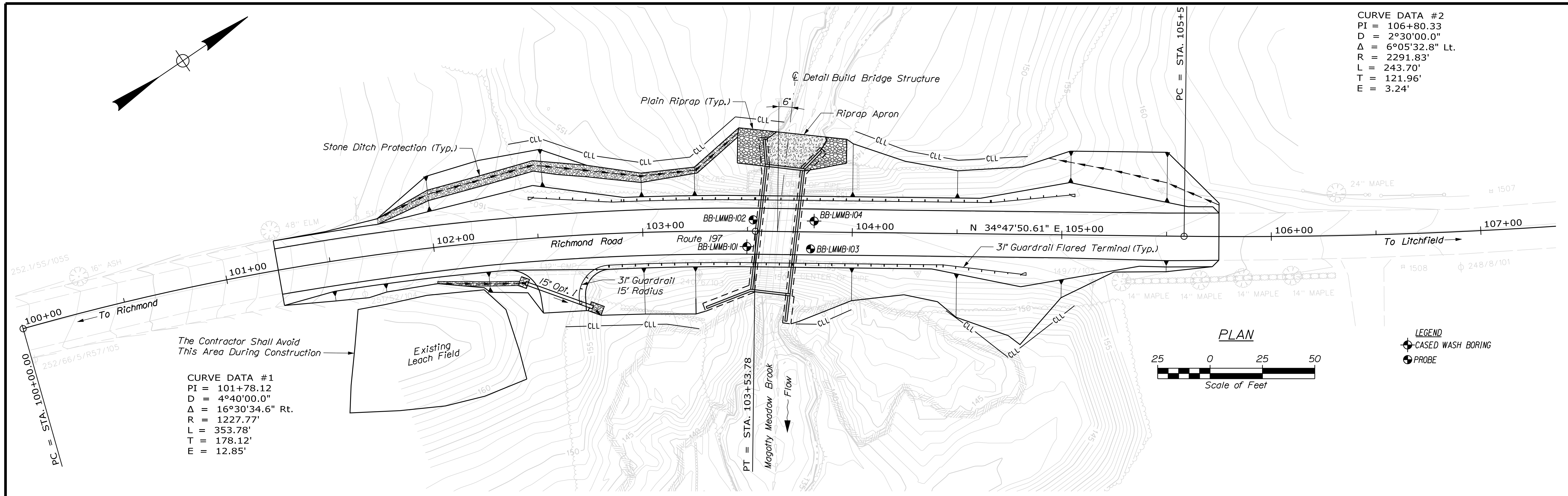


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PROJ. MANAGER	DEVAN EATON	BY	DATE	CHECKED	REVIEWED	DESIGNED	SIGNATURE
DESIGN-DETAILED	D. EATON	MAP	OCT-2019	DESIGNED	J. LEWITT	DESIGNED	
DESIGNED	G. GUSTAFSON	DESIGNED	DEC-2019	DESIGNED		DESIGNED	
DESIGNED		DESIGNED		DESIGNED		DESIGNED	
REVISIONS 1		REVISIONS 1		REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2		REVISIONS 2		REVISIONS 2	
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REVISIONS 4		REVISIONS 4		REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	
PALMER BRIDGE				MAGOTTY MEADOW BROOK			
LITCHFIELD				KENNEBEC COUNTY			
GENERAL PLAN AND PROFILE							
SHEET NUMBER							
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OF 20							

Date: 12/10/2019

Username: Mark.Poulin

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STATE OF MAINE
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 BRIDGE NO. 5141
 BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DEVAN EATON	M.A.P.	OCT-2019			
D. EATON	T. WHITE	NOV. 2019			
L. KRUSINSKI					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

PALMER BRIDGE
 MAGOTTY MEADOW BROOK
 KENNEBEC COUNTY
 LITCHFIELD
 BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER
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 OF 20

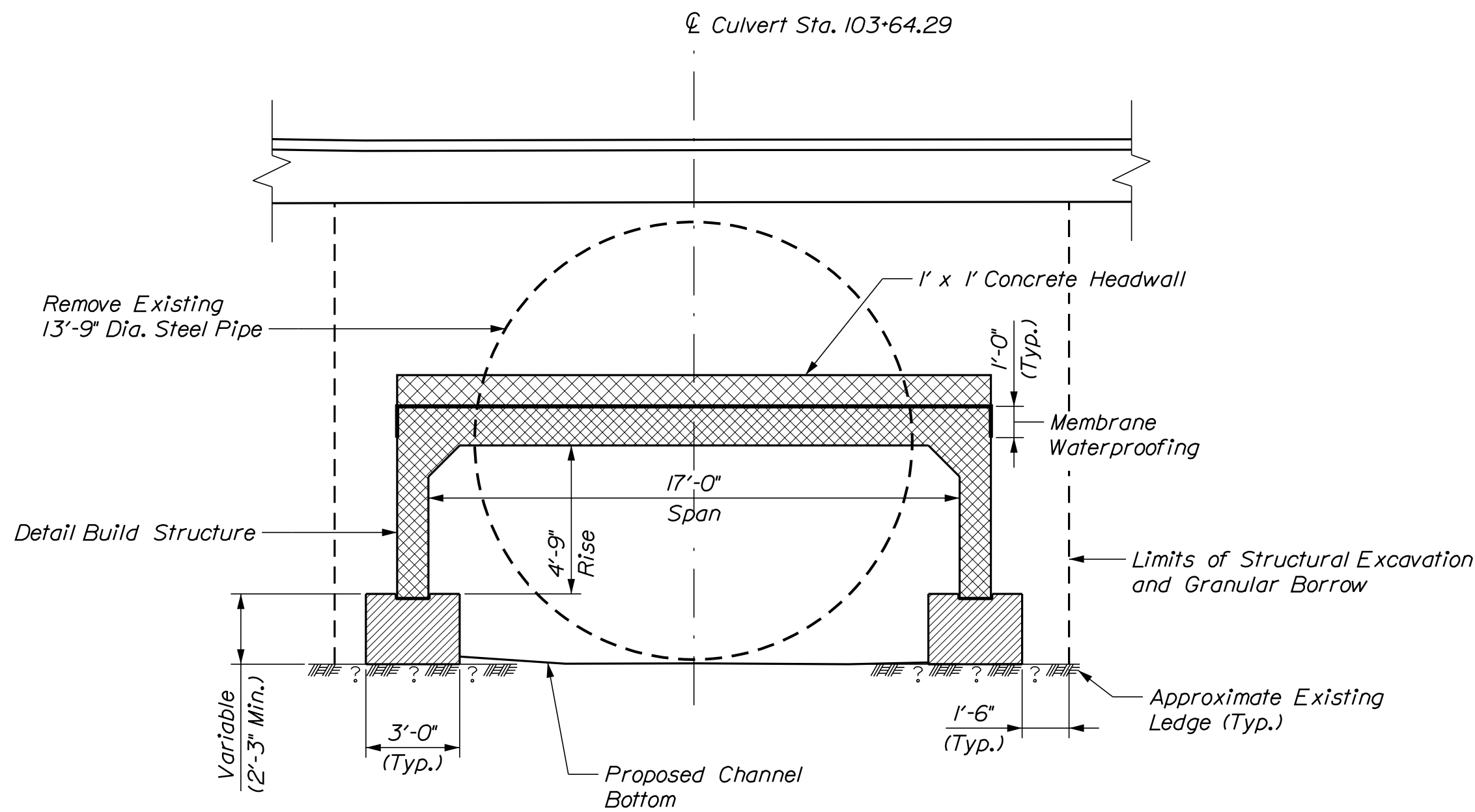
Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil and bedrock transitions may vary and are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

Date: 12/10/2019

Username: Mark.Poulin

Division: BRIDGE

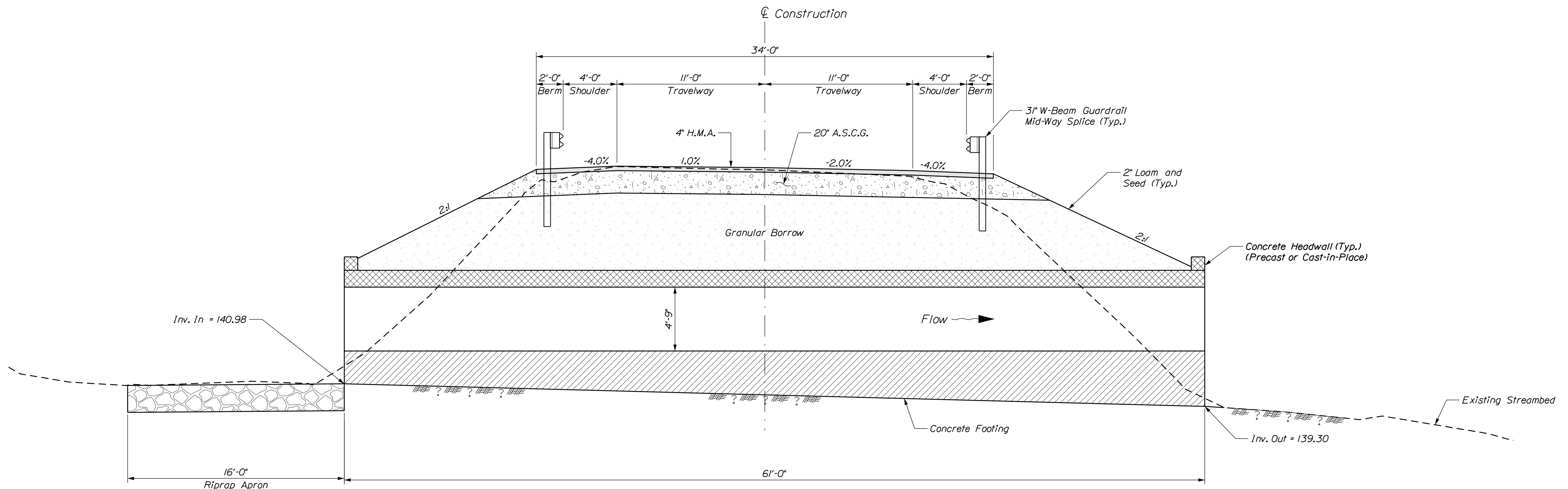
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TYPICAL SECTION
Wing Walls Not Shown For Clarity

DETAIL BUILD BRIDGE STRUCTURE NOTES:

1. Structure and foundation are shown for illustrative purposes only. See Special Provision 531.
2. Construct French Drains behind each base of the Structure Detail Build and wingwalls in accordance with Standard Specification Section 512, French Drains. Daylight french drains through weepholes in the abutment and wingwalls. Coordinate daylight locations with Resident in field.
3. Foundations for detail build structure are shown for illustrative purposes only. Actual dimensions will vary based on the Contractor's proposed design concept. See Special Provision 531 and Project Geotechnical Report for additional information and design requirements.
4. For additional information see Standard Detail 606(20).
5. Foundation concrete shall be placed on bedrock, cleaned of all loose rock or soil. The bedrock subgrade shall be confirmed to be relatively level. Where the bedrock slope exceeds 4H:1V, the bedrock shall be benched to make level steps or made completely level. When prepared bedrock surface is below the bottom of the footing, concrete fill may be placed to fill the void.
6. Concrete fill not shown in plan view for clarity.
7. The Detail Build Structure shall have a minimum hydraulic opening of 115 square feet.



LONGITUDINAL CROSS SECTION
Wing walls Not Shown For Clarity

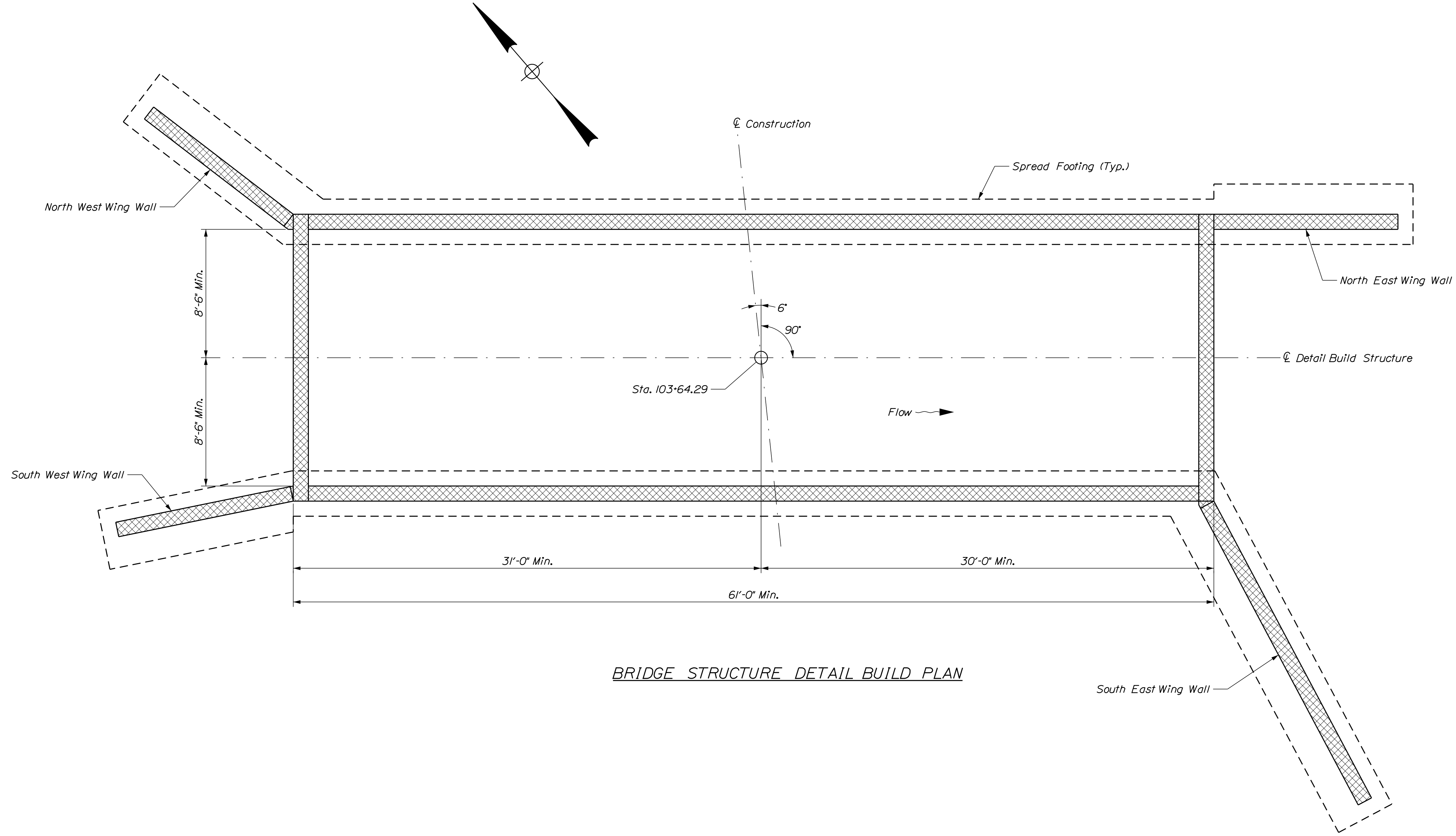
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

DESIGNER: J. LEAVITT
CHECKED: G. GUSTAFSON
DATE: OCT-2019
SIGNATURE: _____
P.E. NUMBER: _____
DATE: _____

PROJ. MANAGER	DEVAN EATON	BY	DATE
DESIGN-DETAILED	D. EATON	M.R.P.	OCT-2019
CHECKED-REVIEWED	G. GUSTAFSON	J. LEAVITT	DEC-2019
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD KENNEBEC COUNTY
BRIDGE PLAN & DETAILS 1 OF 3

SHEET NUMBER
6
OF 20



BRIDGE STRUCTURE DETAIL BUILD PLAN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

22246.00

BRIDGE NO. 5141

WIN

BRIDGE PLANS

SIGNATURE

DATE

BY

DEVAN EATON

DESIGN-DETAILED

DESIGN-REVIEWED

DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

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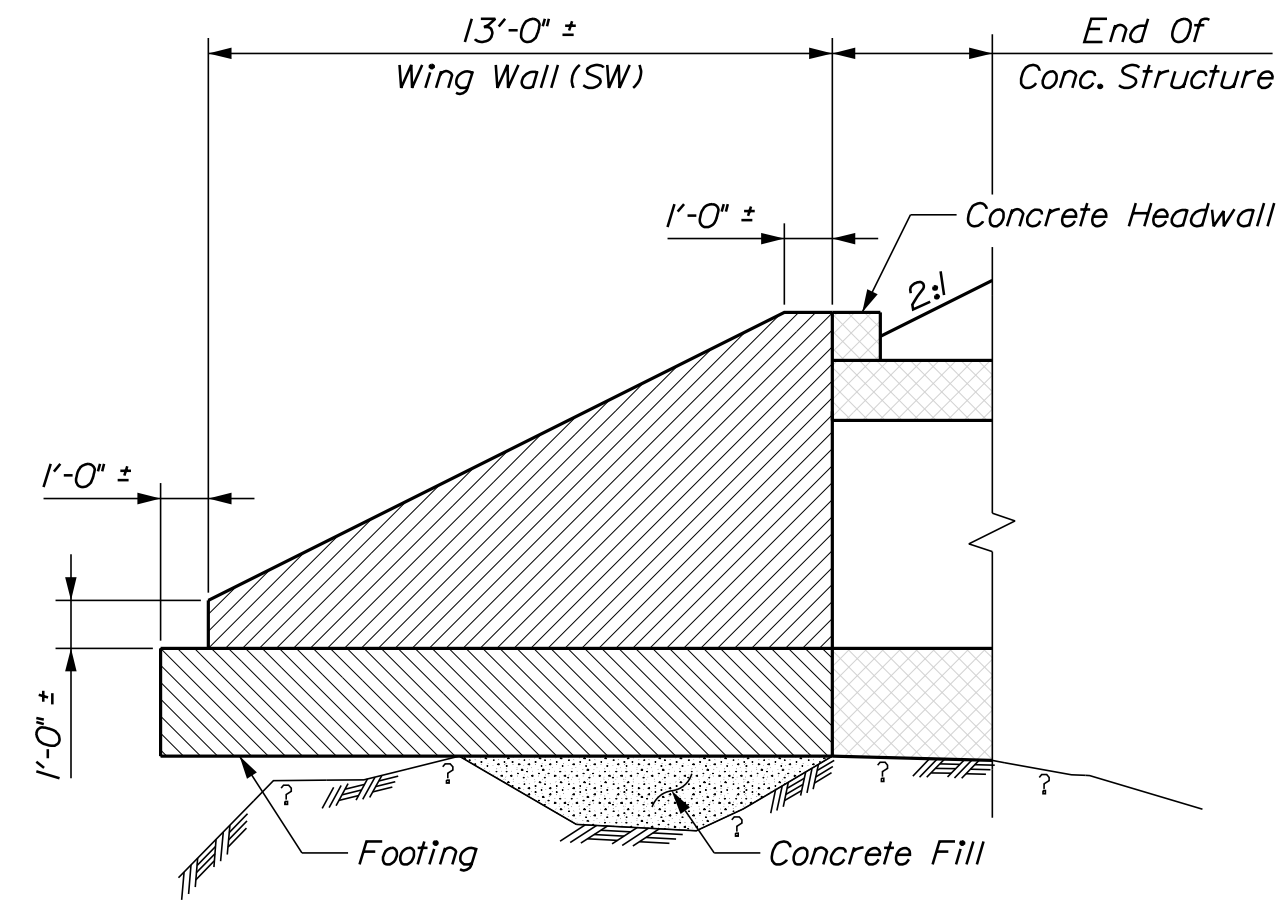
PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD KENNEBEC COUNTY

BRIDGE PLAN & DETAILS 2 OF 3

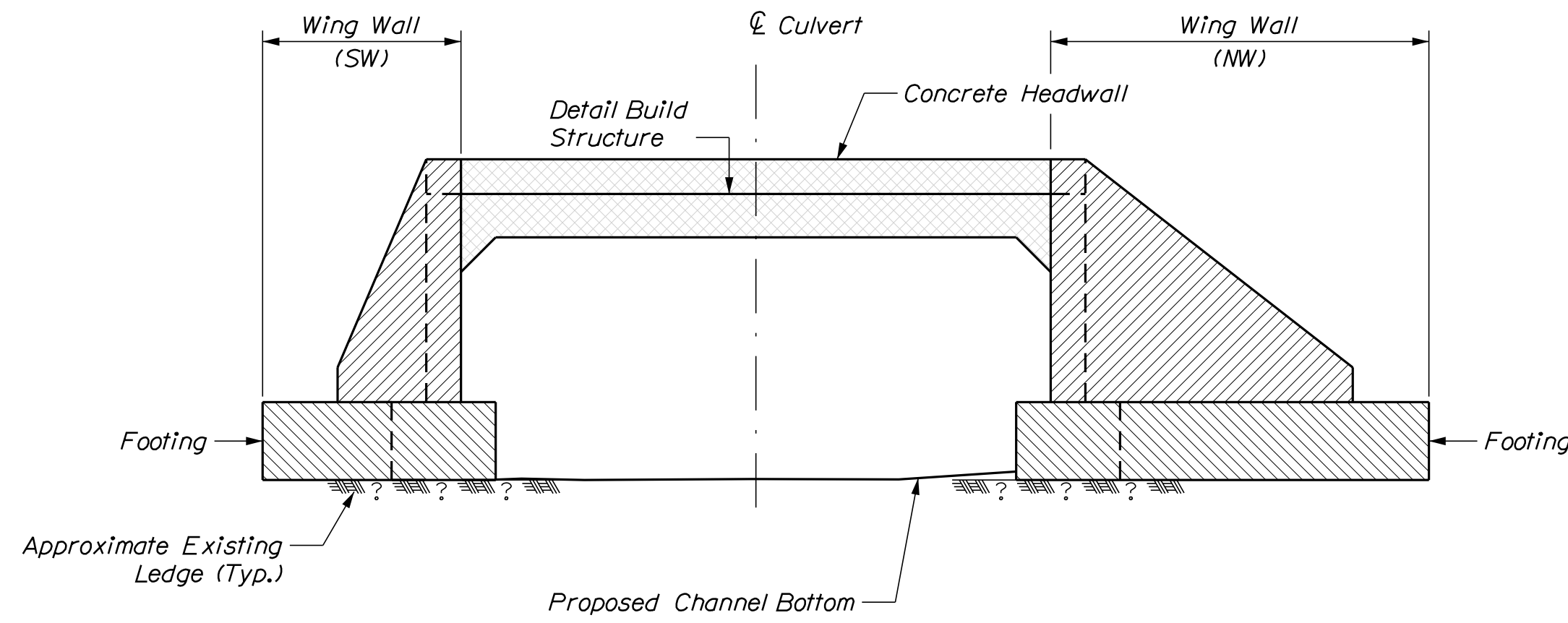
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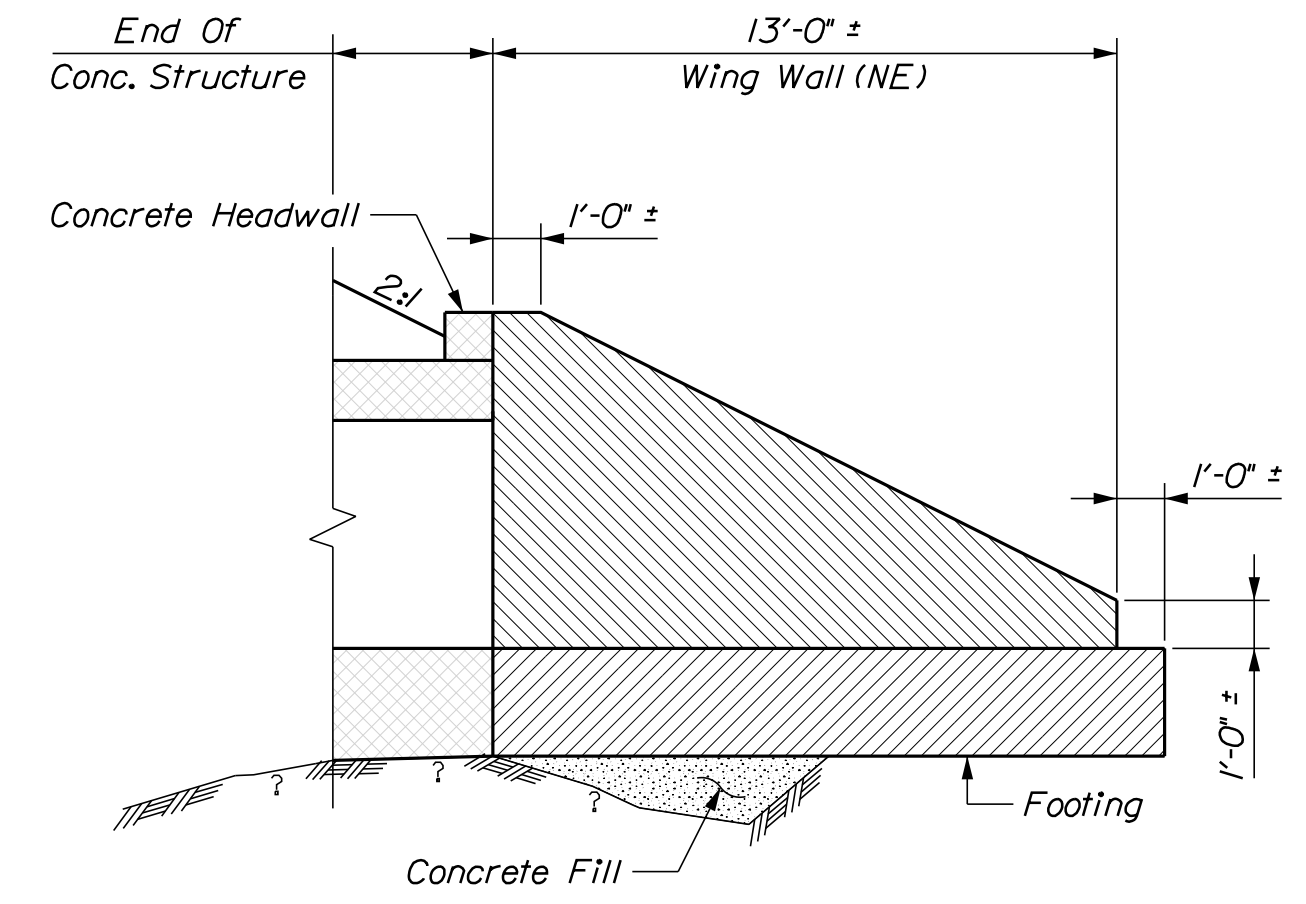
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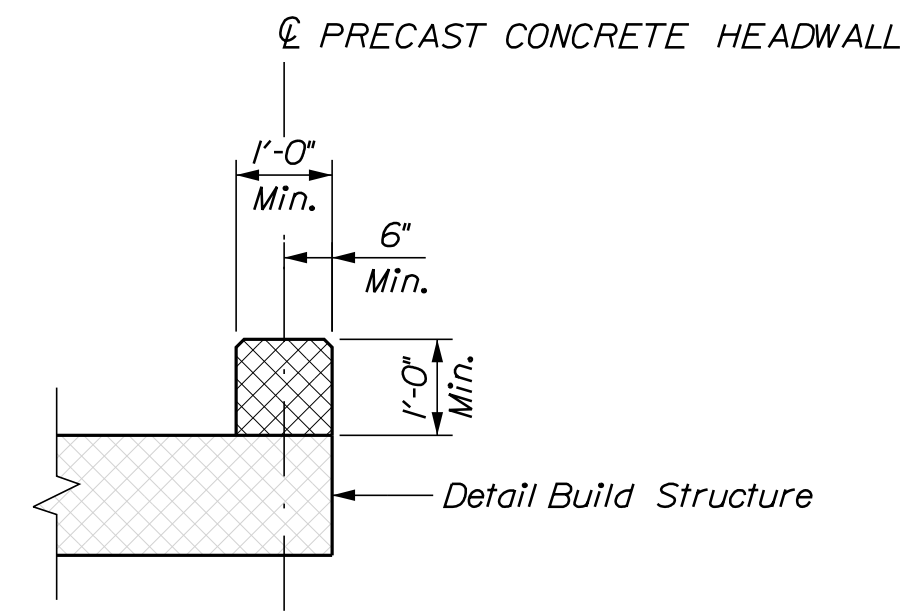
SOUTH WEST WING WALL



WEST HEADWALL



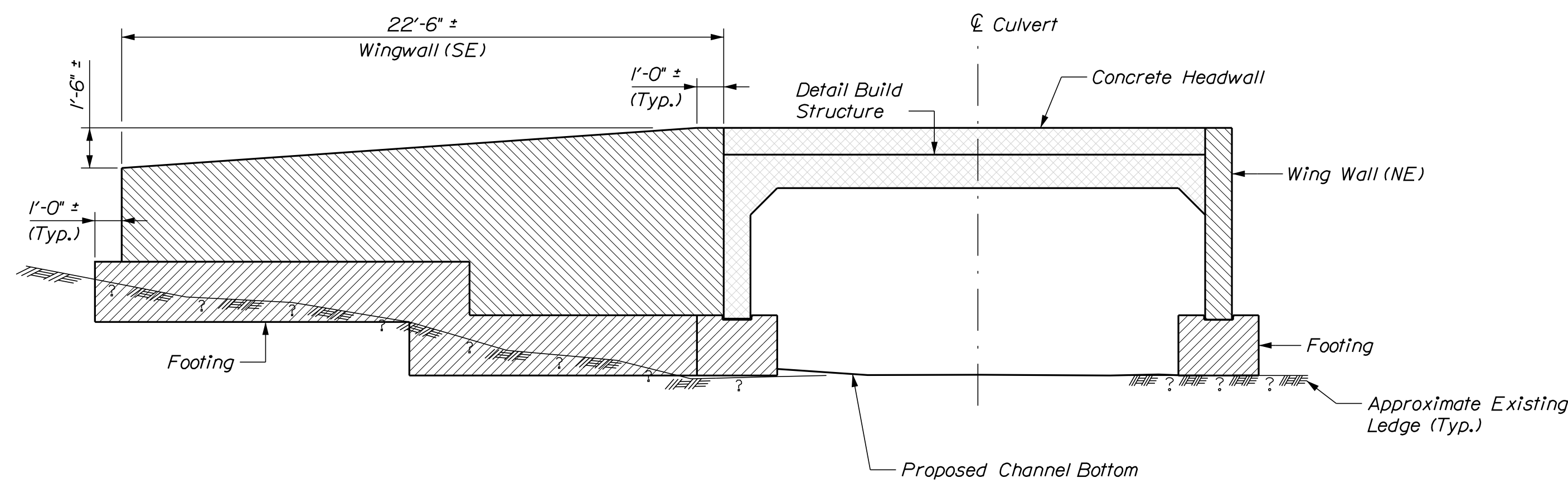
NORTH WEST WING WALL



PRECAST CONCRETE HEADWALL DETAIL

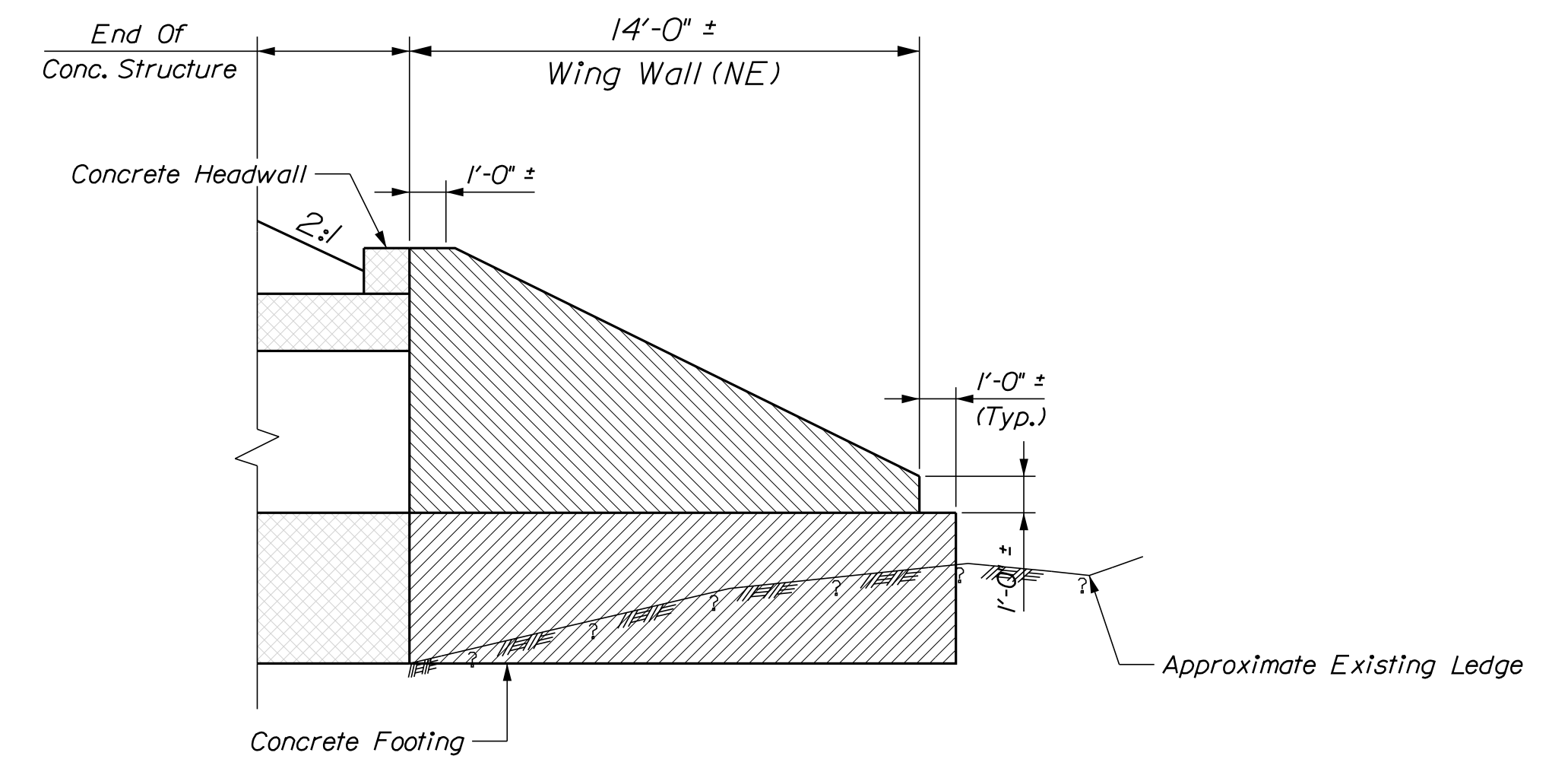
DETAIL BUILD BRIDGE HEADWALL AND WING WALL NOTES:

1. Bottom of fill concrete is approximate. Top of bedrock is variable and shall be field verified.
2. Detail build headwall and wingwall structure shown is for illustrative purposes only. See Special Provision 531 and Project Geotechnical Report.
3. Wingwalls and their footings shall be backfilled with Granular Borrow. Backfill will not be measured for payment, but shall be included in the Detail Build Structure Pay Item.
4. Refer to the Project Geotechnical Report for detail build wingwall geotechnical design requirements.



SOUTH EAST WING WALL

EAST HEADWALL



NORTH EAST WING WALL

DESIGN-DETAILED	DATE	SIGNATURE
CHECKED-REVIEWED	OCT-2019	
DESIGN-DETAILED	DEC-2019	
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

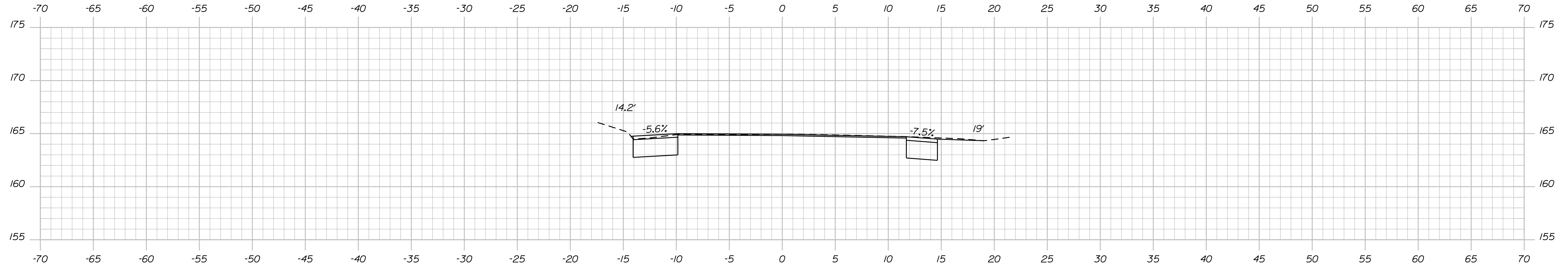
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CHECKED-REVIEWED	G. GUSTAFSON	J. LEAVITT	DEC-2019
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FIELD CHANGES			

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY
BRIDGE PLAN & DETAILS 3 OF 3

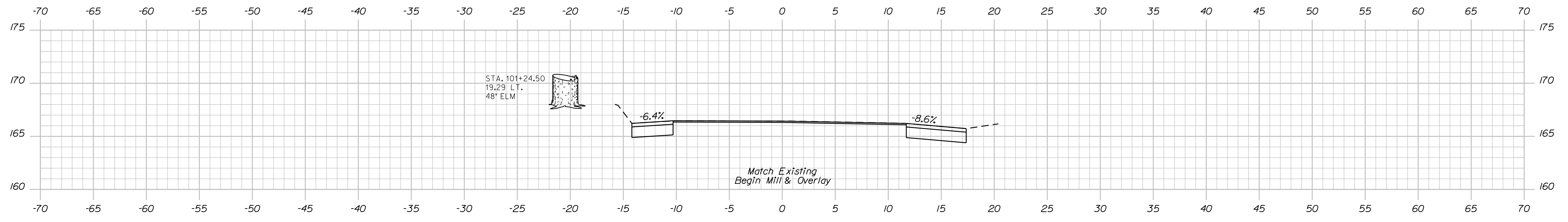
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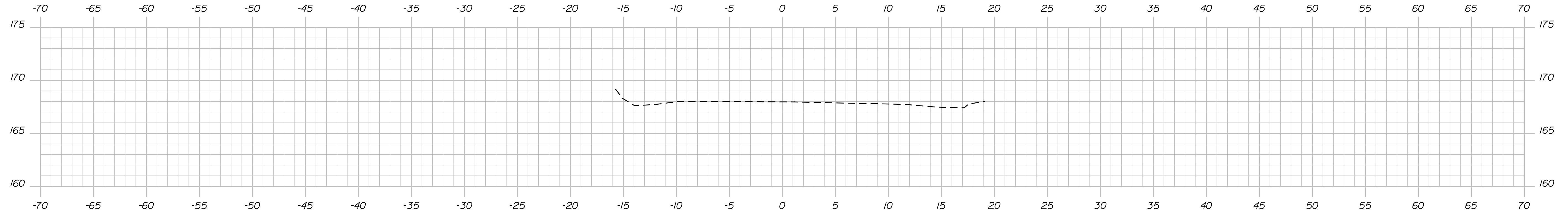
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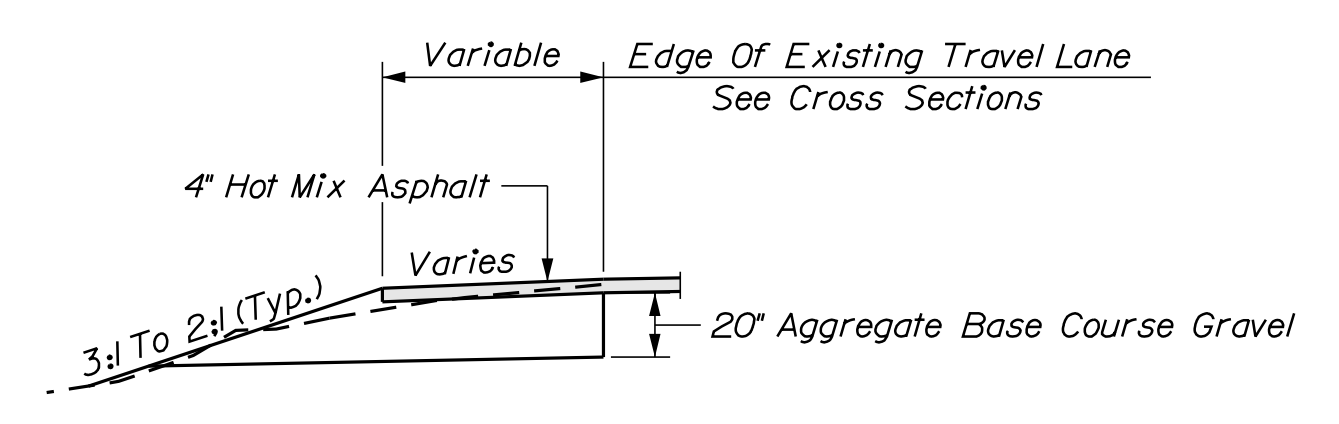
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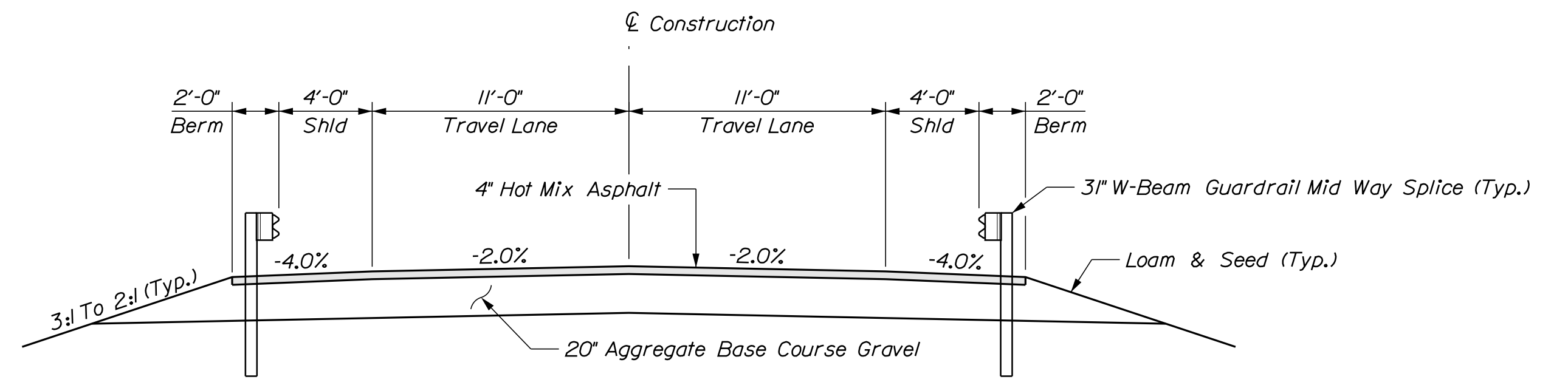
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TYPICAL WIDING SHOULDER SECTION
(Mill And Overlay Areas)



TYPICAL APPROACH SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

DESIGN/DATE	BY	DATE	SIGNATURE
D. EATON	M.A.P.	OCT-2019	
G. GUSTAFSON	J. LEAVITT	DEC-2019	
DESIGN/DATE	BY	DATE	P.E. NUMBER
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER
DESIGN/DATE
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REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

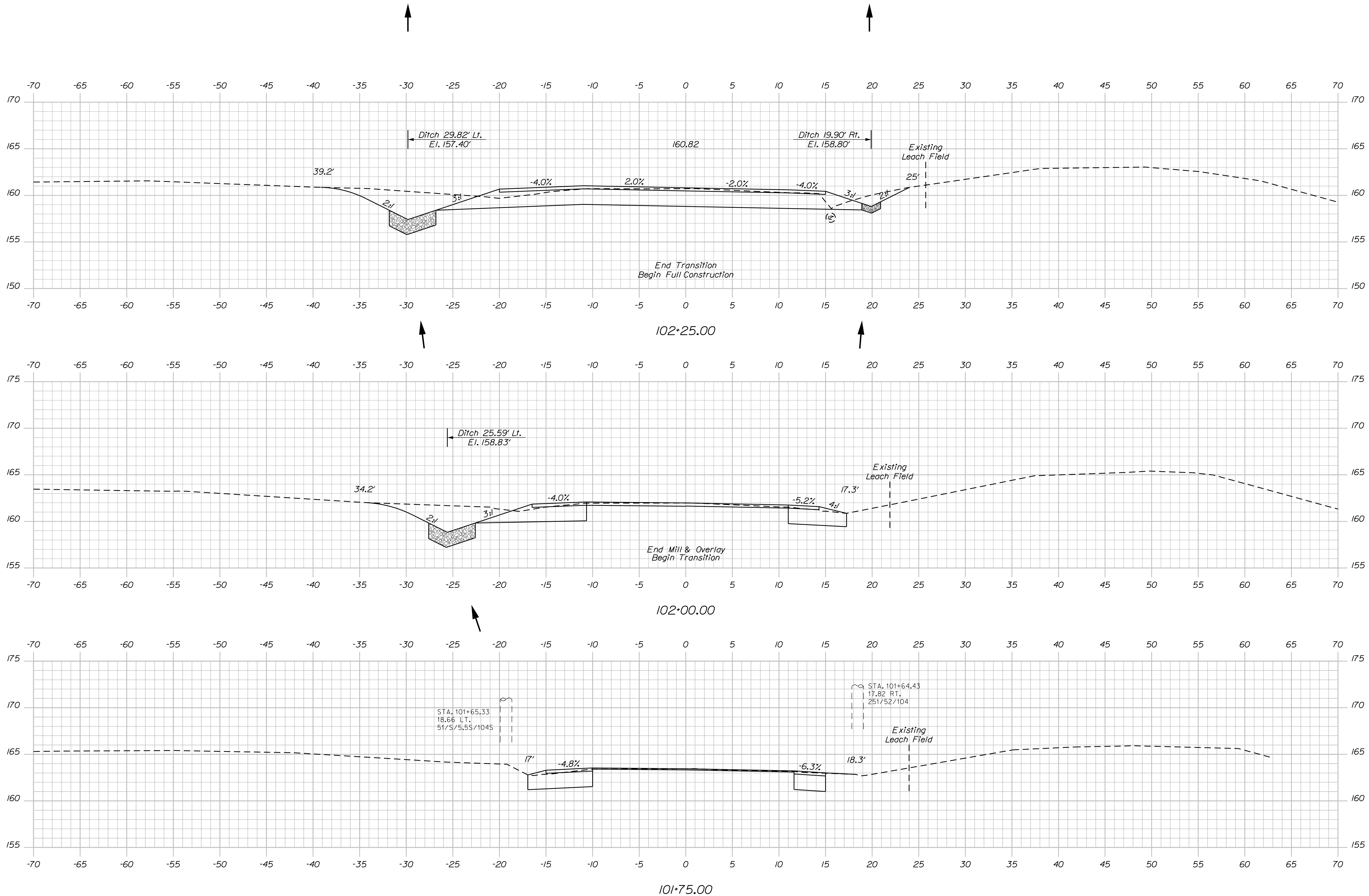
PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY
CROSS SECTIONS

SHEET NUMBER
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OF 20

Date: 12/10/2019

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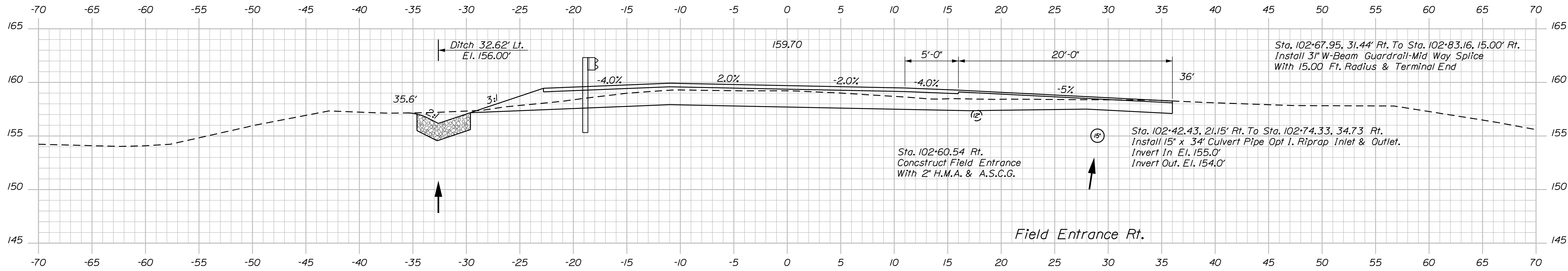
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		22246.00	
PALMER BRIDGE		MAGOTTY MEADOW BROOK		LITCHFIELD	
KENNEBEC COUNTY		CROSS SECTIONS		SHEET NUMBER	
10		OF 20		BRIDGE NO. 5141	
WIN		22246.00		BRIDGE PLANS	
PROJ. MANAGER	DEVAN EATON	BY	DATE	SIGNATURE	P.E. NUMBER
DESIGN/DETAILED	D. EATON	M.A.P.	OCT-2019		
CHECKED/REVIEWED	G. GUSTAFSON	J. LEAVITT	DEC-2019		
DESIGNS/DETAILED					
REVISIONS 1					
REVISIONS 2					
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REVISIONS 4					
FIELD CHANGES					

Date: 12/10/2019

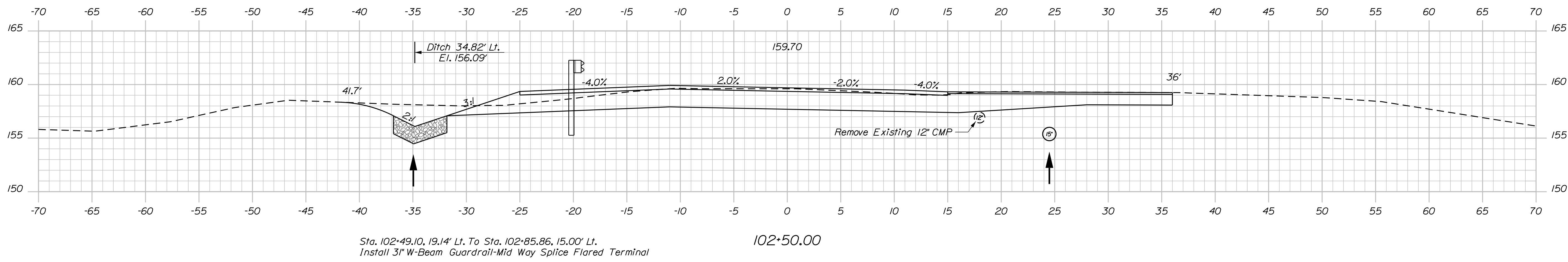
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Division: BRIDGE

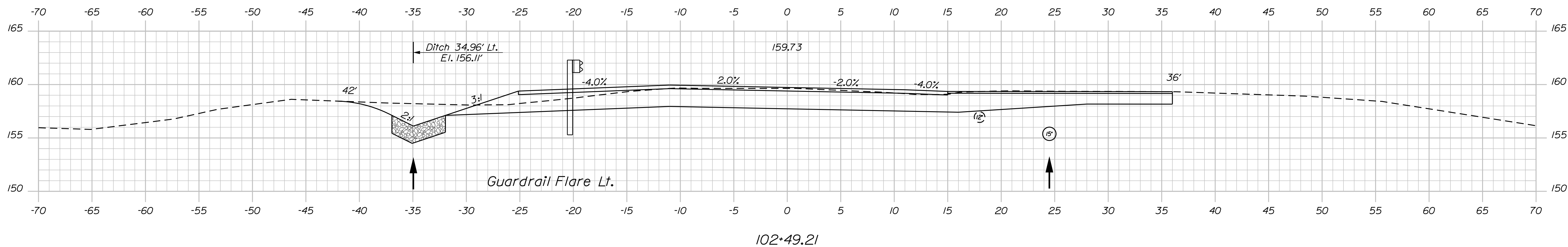
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102+60.54



102+50.00



102+49.21

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

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

BY
M.A.P.
J. LEAVITT

DATE
OCT-2019
DEC-2019

SIGNATURE
P.E. NUMBER
DATE

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

DEVAN EATON
D. EATON
G. GUSTAFSON
J. LEAVITT

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY
CROSS SECTIONS

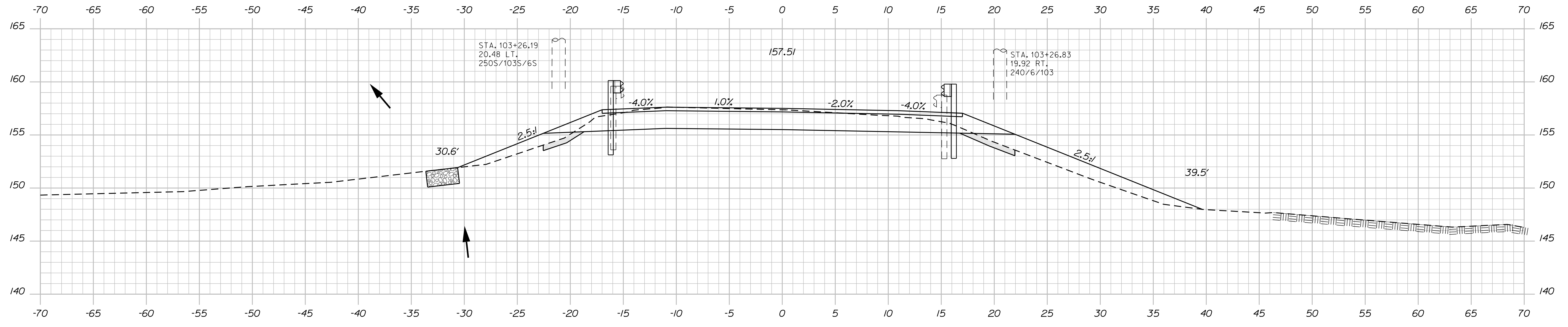
SHEET NUMBER
11
OF 20

Sta. 102+49.21 to Sta. 102+60.54

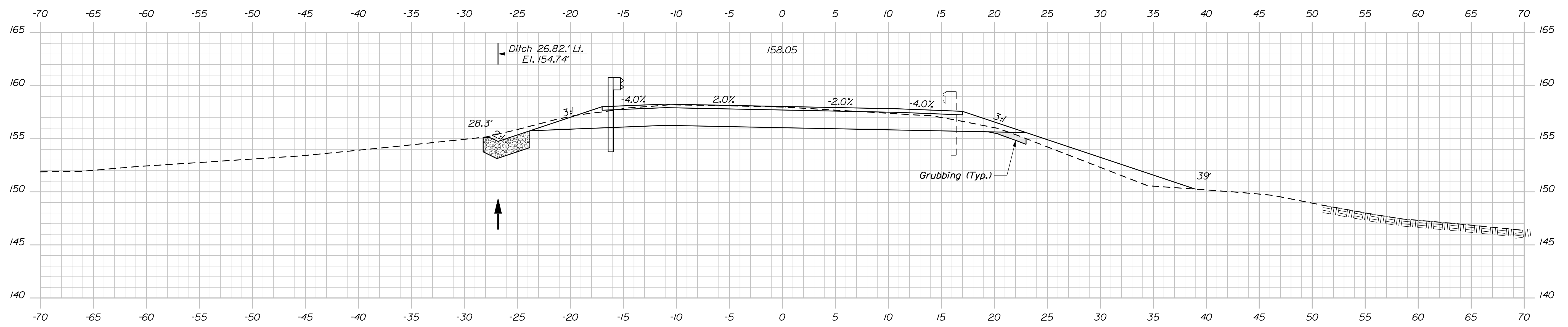
Date: 12/10/2019

Username: Mark.Poulin

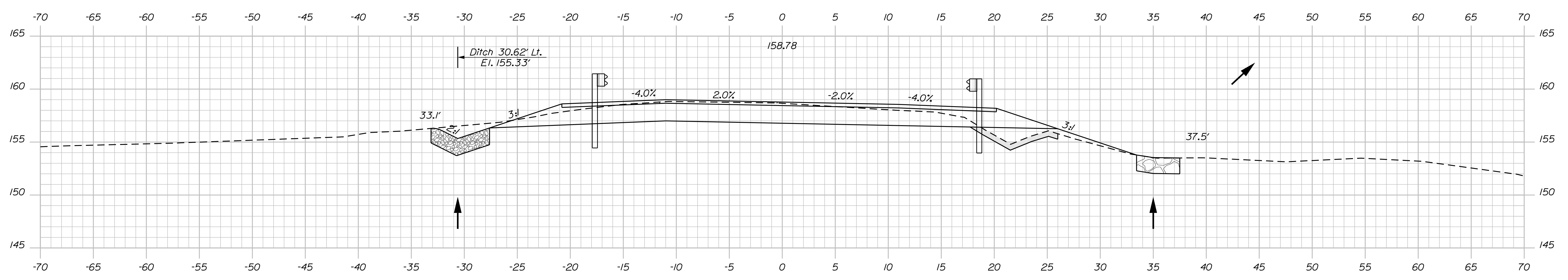
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103+25.00



103+00.00



102+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

DESIGNED BY	DATE	SIGNATURE
CHECKED BY	DATE	
DESIGNED BY	DATE	
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	DEVAN EATON
DESIGNED BY	D. EATON
CHECKED BY	M.R.P.
DESIGNED BY	G. GUSTAFSON
REVISIONS 1	J. LEVITT
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD KENNEBEC COUNTY
CROSS SECTIONS

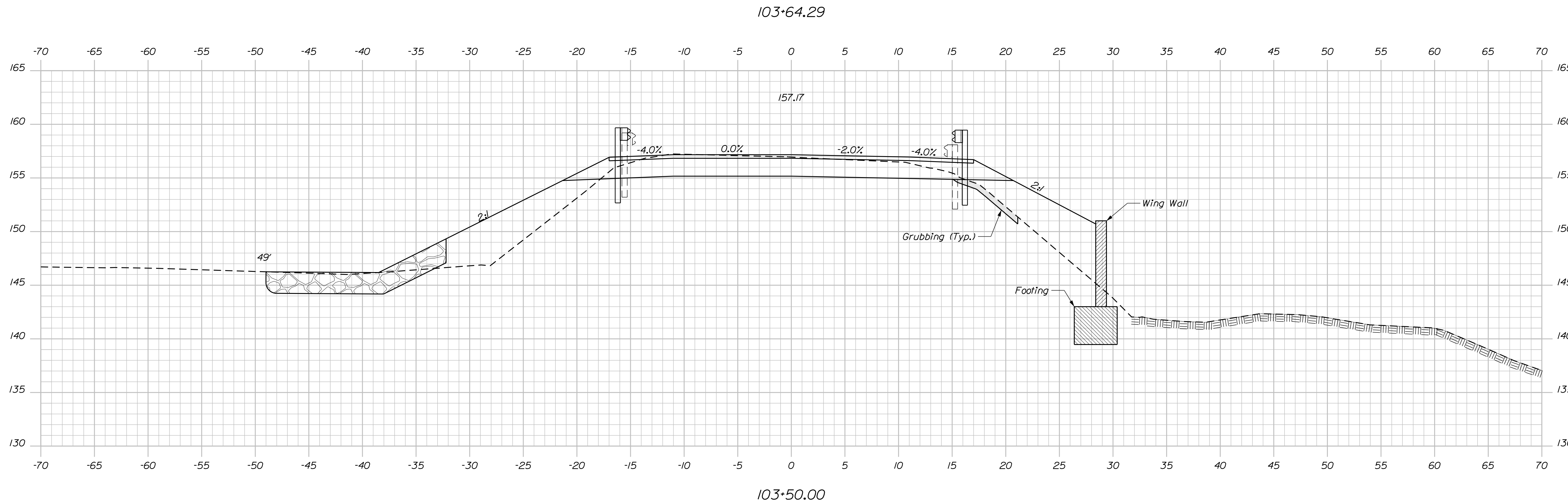
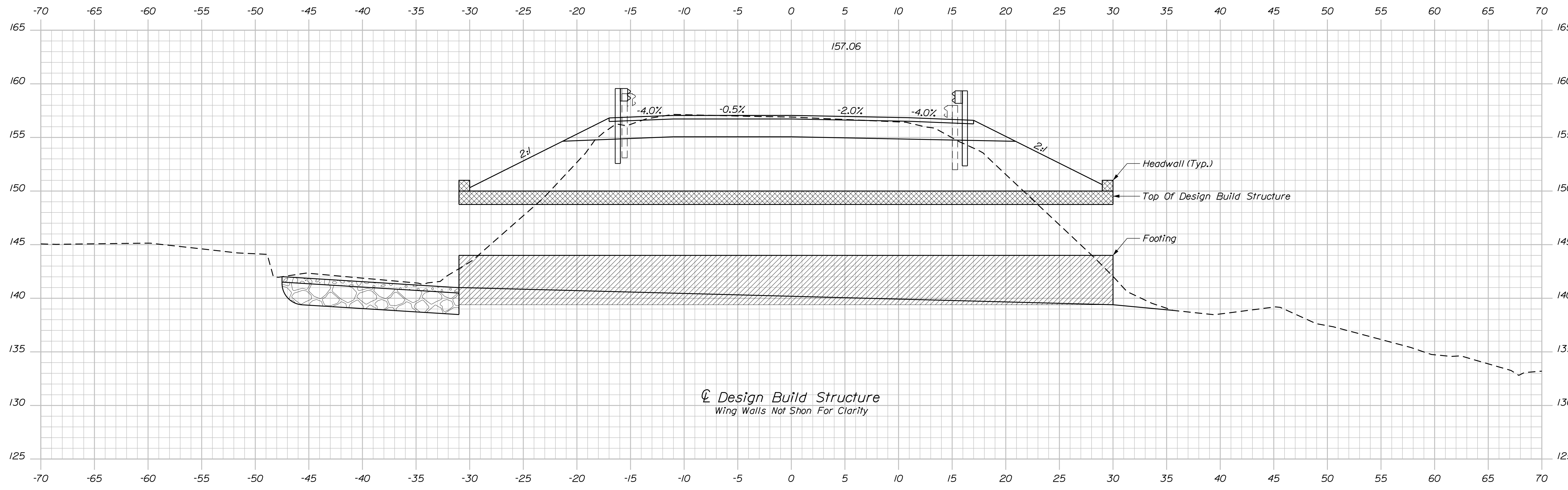
SHEET NUMBER
12
OF 20

Sta. 102+75.00 to Sta. 103+25.00

Date: 12/10/2019

Username: Mark.Poulin

Filename: ... \MSTA\013_XSECT_103+50_005.dgn Division: BRIDGE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

DESIGN DETAILED	DATE	SIGNATURE
CHECKED/REVIEWED	OCT-2019	
DESIGN DETAILED	DEC-2019	
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	DEVAN EATON	BY	DATE
DESIGN DETAILED	D. EATON	M.R.P.	OCT-2019
CHECKED/REVIEWED	G. GUSTAFSON	J. LEAVITT	DEC-2019
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

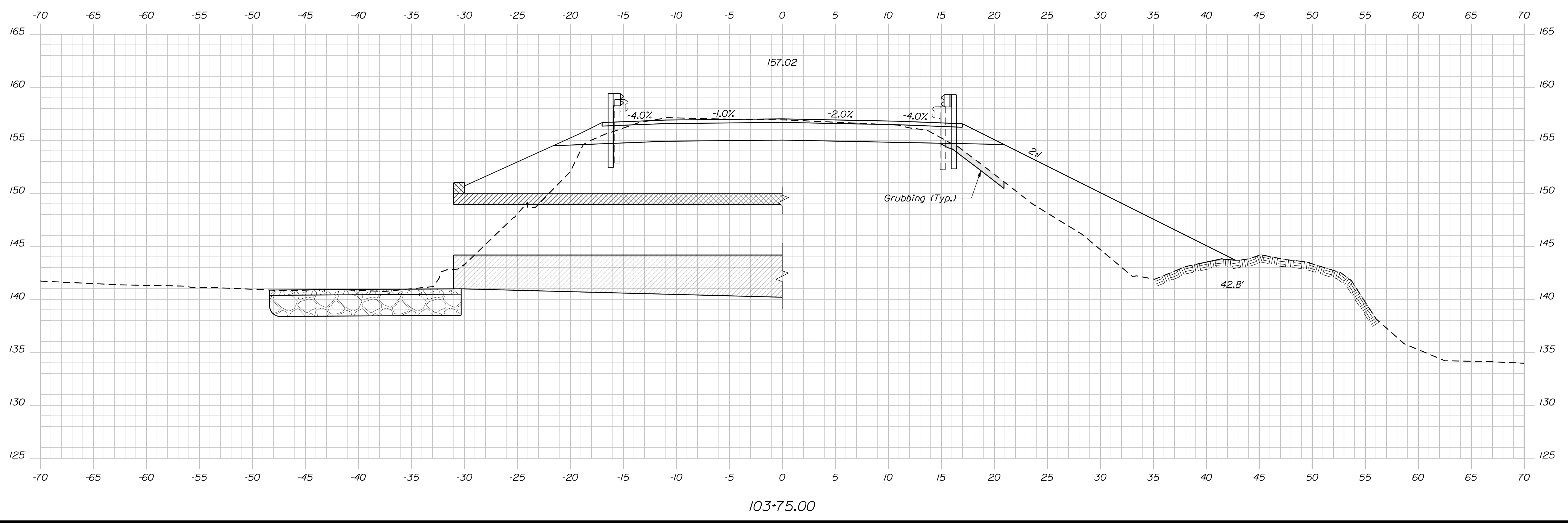
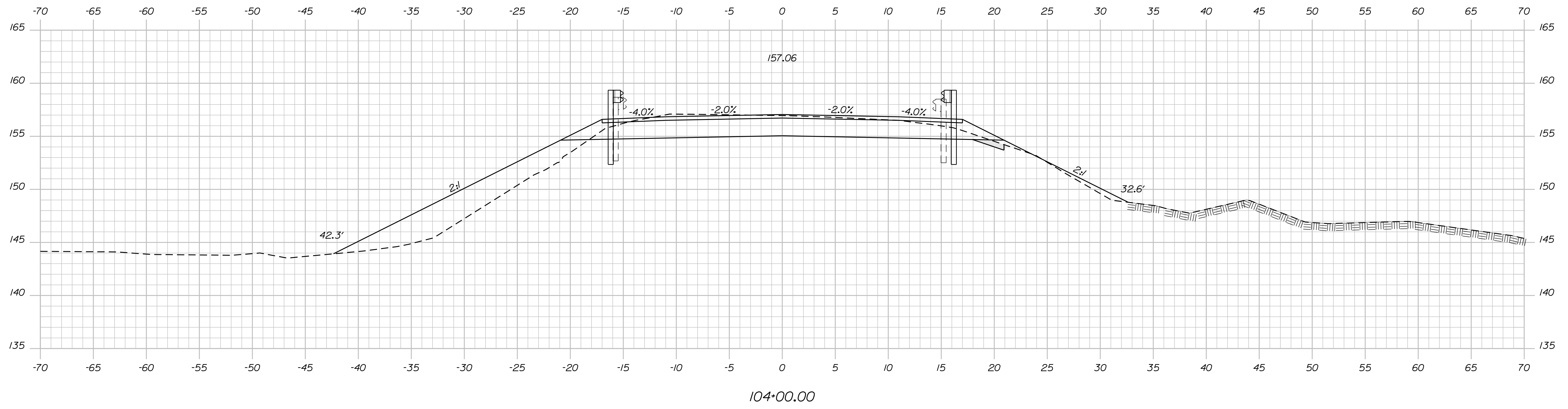
PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY
CROSS SECTIONS

SHEET NUMBER
13
OF 20

Date: 12/10/2019

Username: Mark.Poulin

Filename: ... \MST\A014_XSECT_103+75_006.dgn Division: BRIDGE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	DEVAN EATON	BY	DATE
DESIGN/DETAILED	D. EATON	M.A.P.	OCT-2019
CHECKED/REVIEWED	G. GUSTAFSON	J. LEVITT	DEC-2019
DESIGN/DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD KENNEBEC COUNTY
CROSS SECTIONS

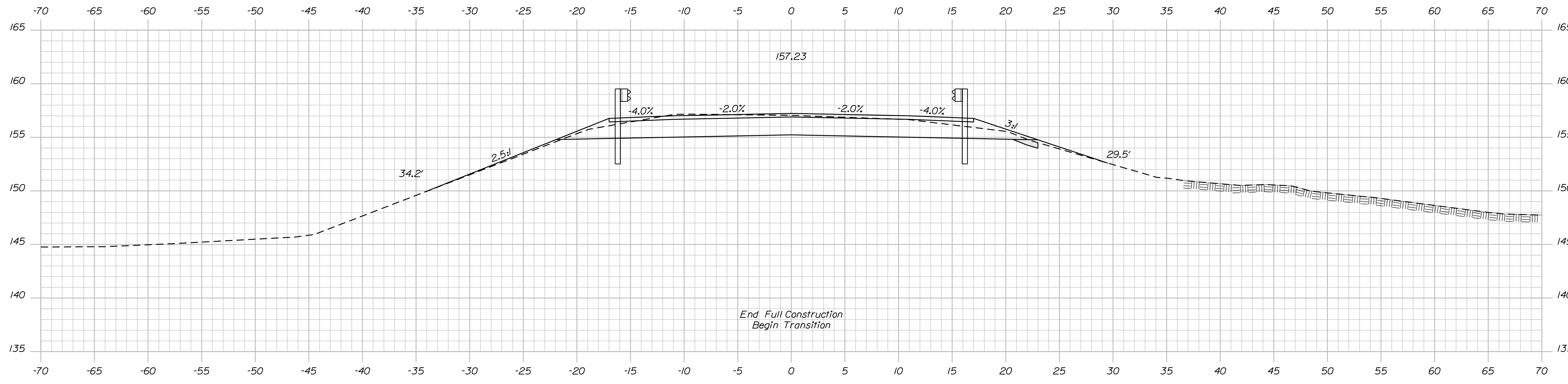
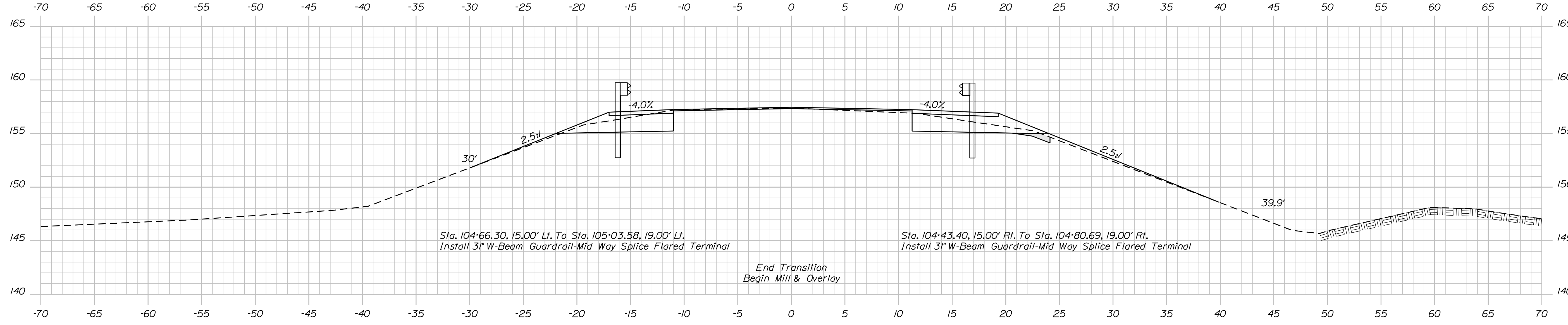
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14
OF 20

Date: 12/10/2019

Username: Mark.Poulin

Division: BRIDGE

Filename: ... \MSTA\015_XSECT_104+25_007.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

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

PROJ. MANAGER
DEVAN EATON

BY
M.A.P.
J. LEVITT

DATE
OCT-2019
DEC-2019

SIGNATURE
P.E. NUMBER
DATE

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY

CROSS SECTIONS

SHEET NUMBER
15
OF 20

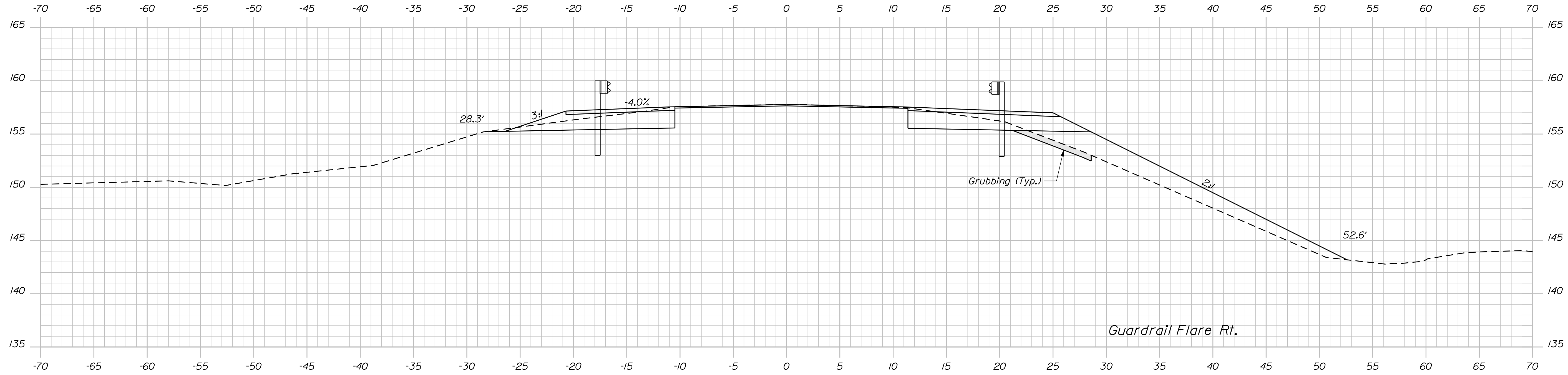
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Date: 12/10/2019

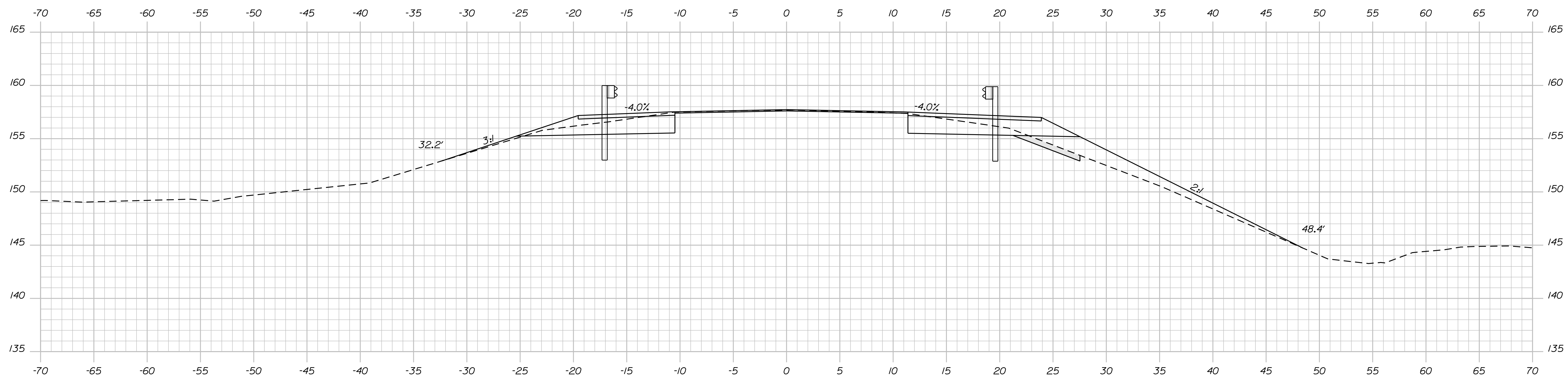
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Division: BRIDGE

Filename: ... \MST\A016_XSECT_104+75_008.dgn



104+80.69



104+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

DESIGN: D. EATON
CHECKED: G. GUSTAFSON
DESIGN: G. GUSTAFSON
REVISIONS: 1, 2, 3, 4
FIELD CHANGES

PROJ. MANAGER	DEVAN EATON	BY	DATE
DESIGN	D. EATON	M.R.P.	OCT-2019
CHECKED	G. GUSTAFSON	J. LEVITT	DEC-2019
DESIGN	G. GUSTAFSON		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY
CROSS SECTIONS

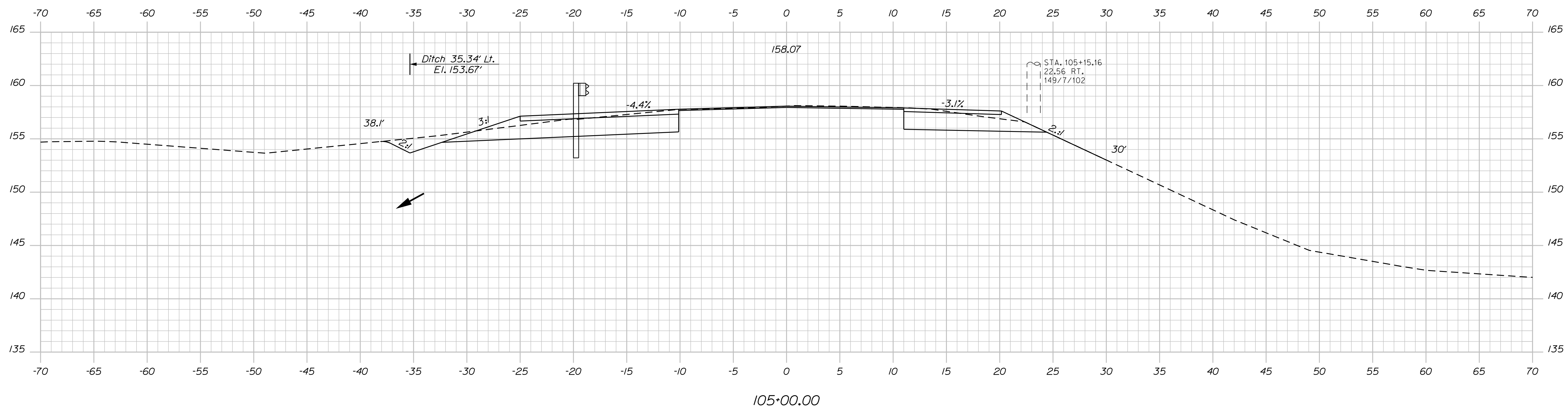
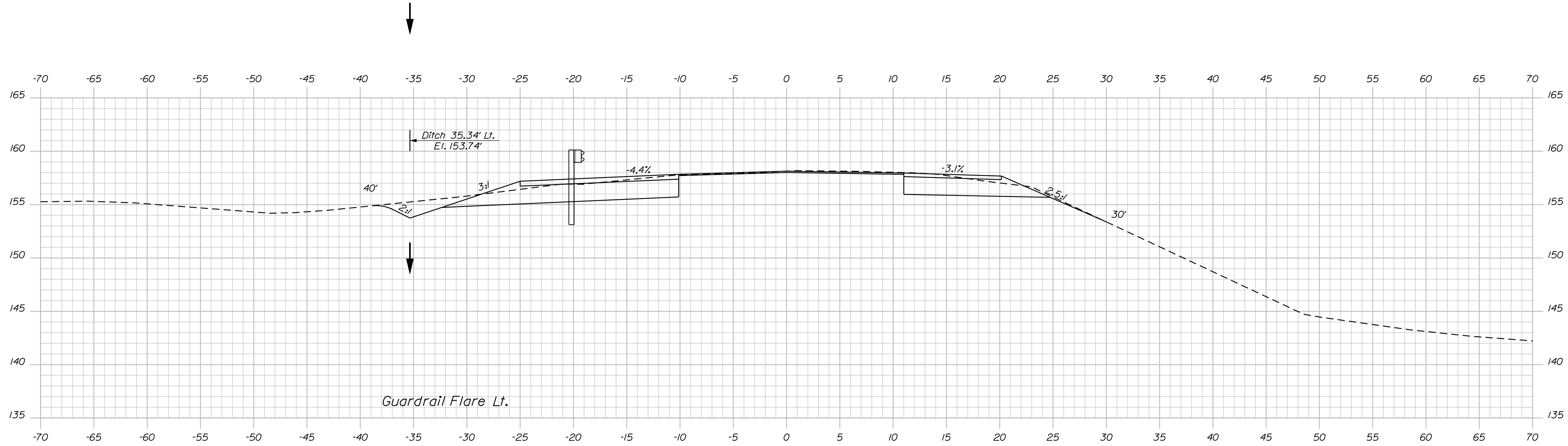
SHEET NUMBER
16
OF 20

Date: 12/10/2019

Username: Mark.Poulin

Division: BRIDGE

Filename: ... \MSTA\017_XSECT_105+00_009.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

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

DATE
OCT-2019
DEC-2019

BY
M.R.P.
J. LEVITT

PROJ. MANAGER
DEVAN EATON

SIGNATURE
P.E. NUMBER
DATE

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY

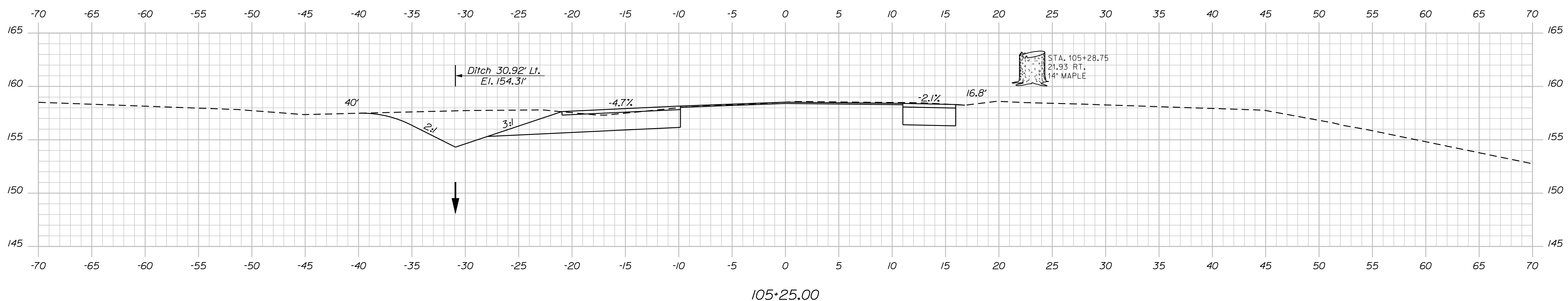
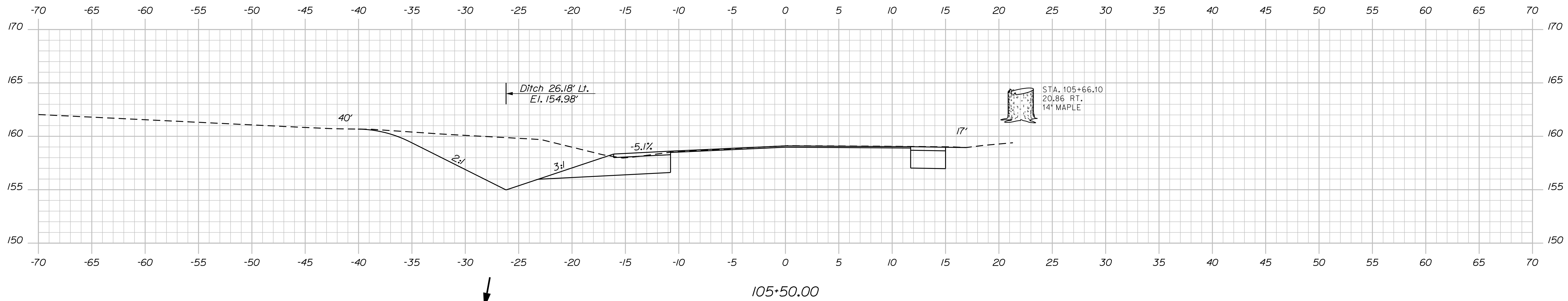
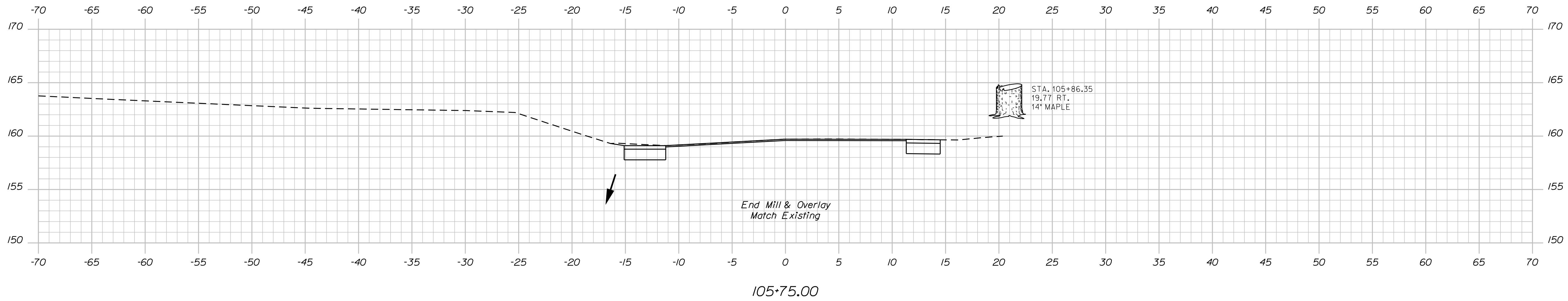
CROSS SECTIONS

SHEET NUMBER
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OF 20

Date: 12/10/2019

Username: Mark.Poulin

Filename: ... \MSTA018_XSECT_105+25_010.dgn Division: BRIDGE



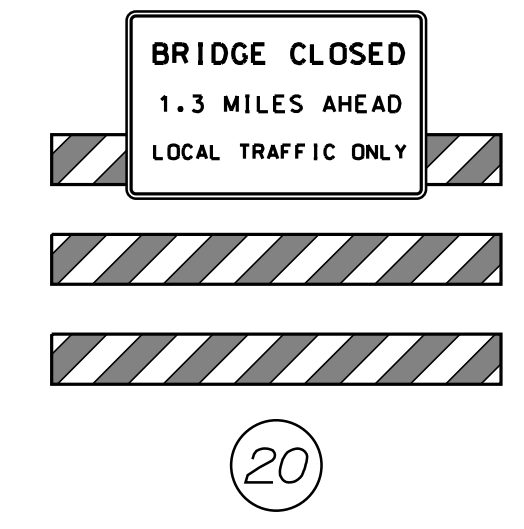
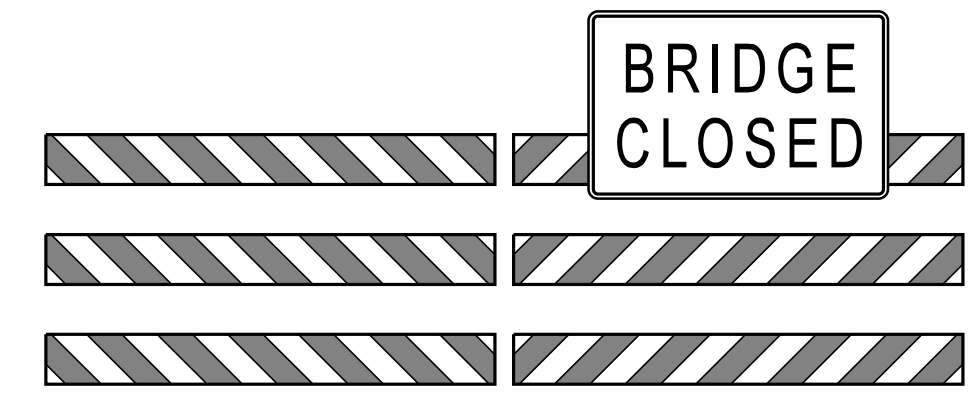
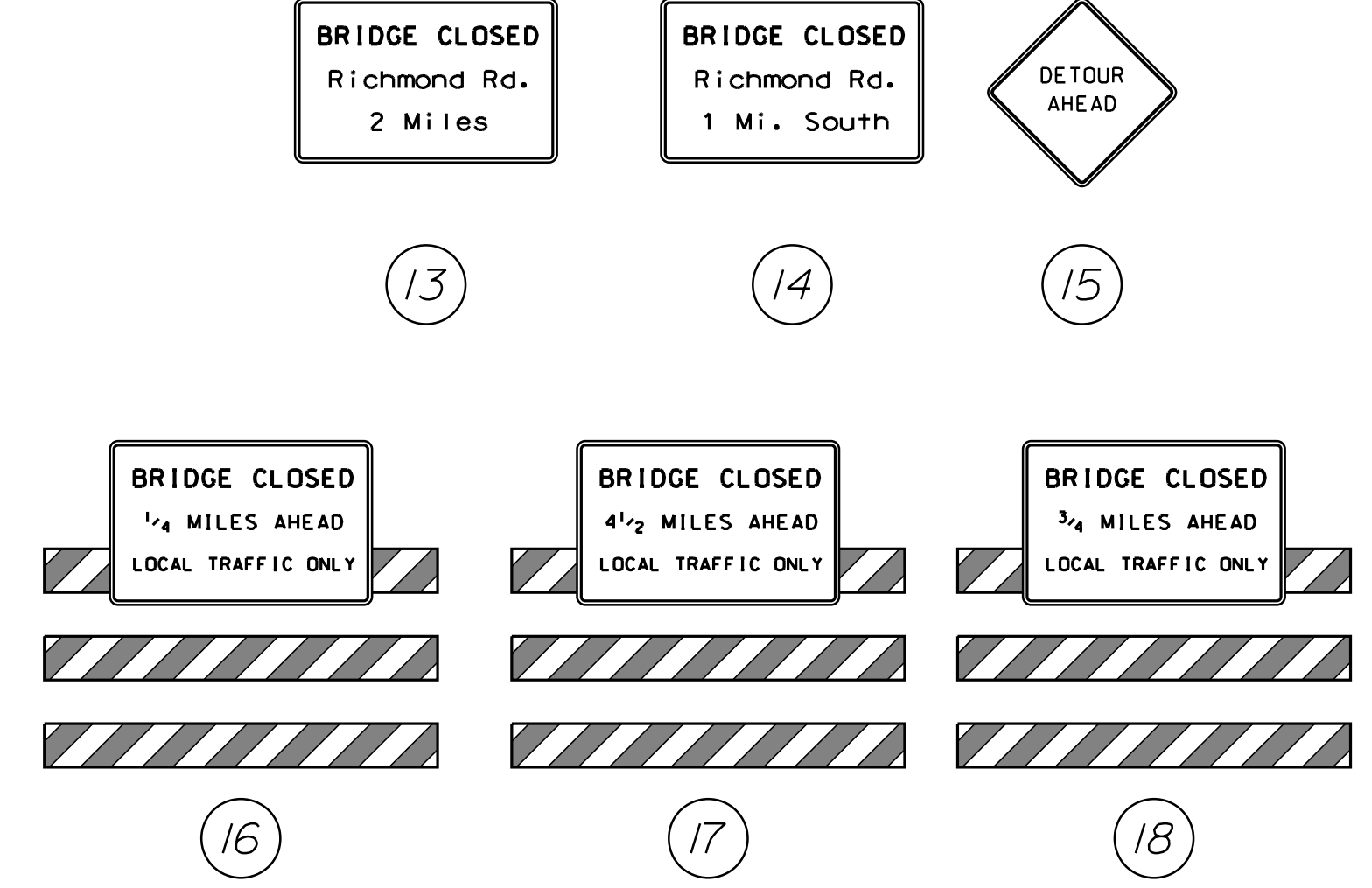
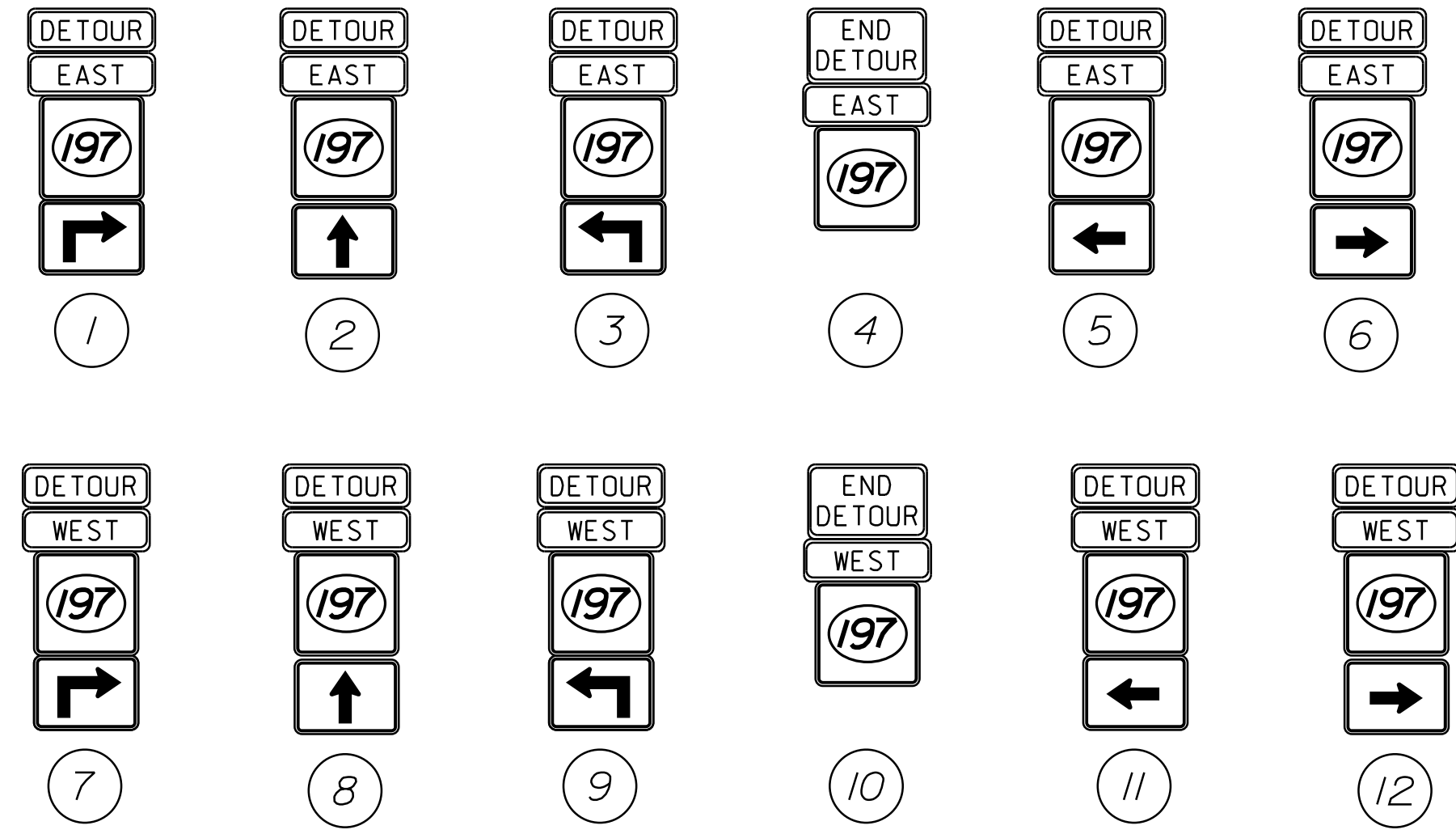
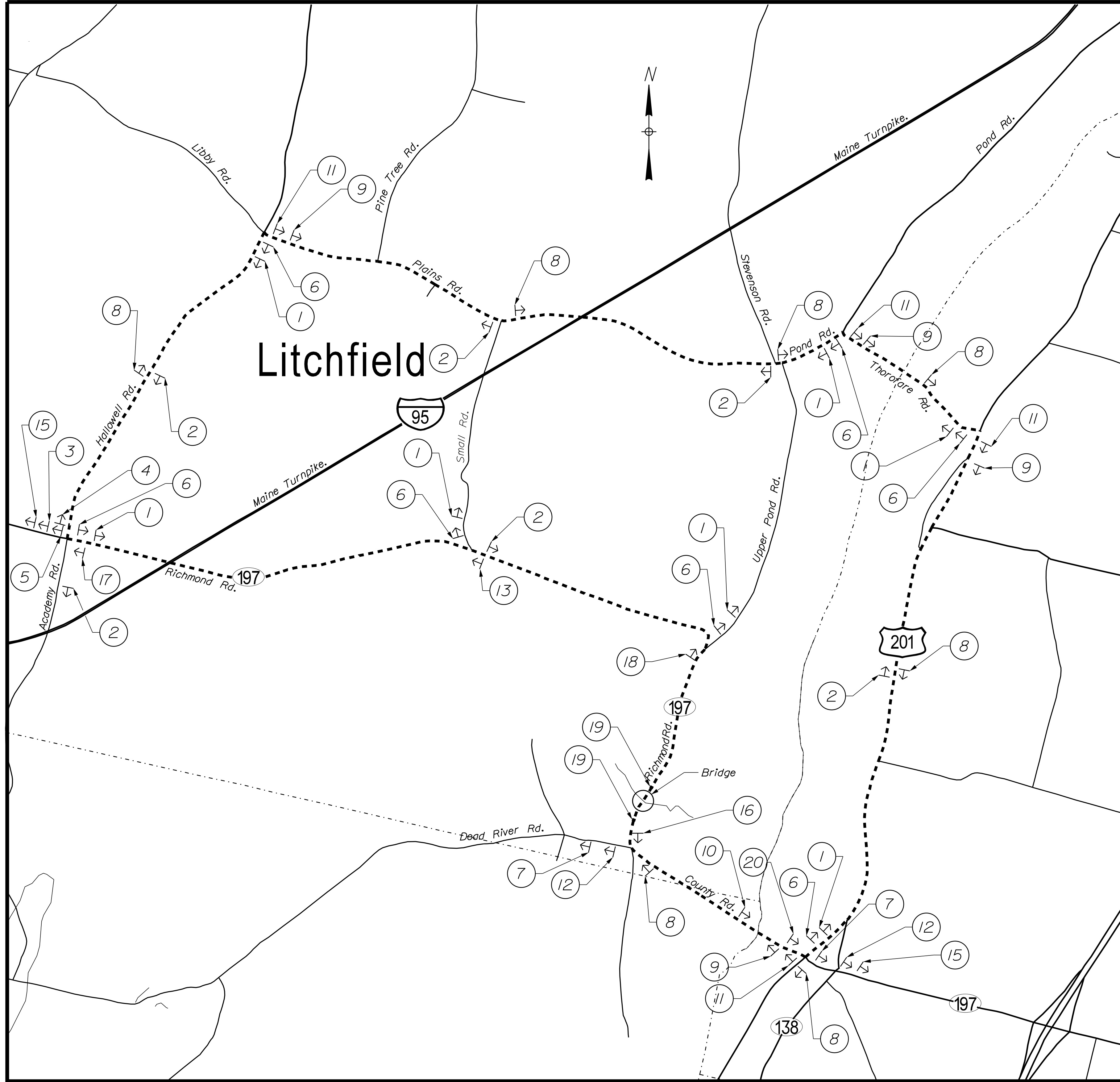
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	DEVAN EATON	DATE
DESIGN-DETAILED	D. EATON	OCT-2019
CHECKED-REVIEWED	G. GUSTAFSON	DEC-2019
DESIGN-DETAILED	J. LEAVITT	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY
CROSS SECTIONS

SHEET NUMBER
18
OF 20



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
22246.00
WIN
22246.00
BRIDGE NO. 5141
BRIDGE PLANS

PROJ. MANAGER	DEVAN EATON	DATE
DESIGN-DETAILED	D. EATON	DEC-2019
CHECKED-REVIEWED	M. BRICHLOW	DEC-2019
DESIGN-DETAILED	G. GUSTAFSON	M.R.P.
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PALMER BRIDGE
MAGOTTY MEADOW BROOK
LITCHFIELD
KENNEBEC COUNTY
DETOUR MAP

Town, County, State _____
 Approx. Property Lines _____
 Existing Right of Way _____
 Limits of Wrought Portion _____
 Control Of Access _____
 New Right of Way _____
 New Easement _____
 New Temporary Rights _____
 New R/W Within Existing R/W _____

New R/W Along Existing R/W _____
 Building _____
 Trees Conifer _____
 Tree Line _____
 Water Edge _____
 Ledge _____
 Fence _____
 Sign _____

Clearing Limit Line _____
 Bush Line _____
 Rock/Boulder _____
 Flag Pole _____
 BARB WIRE _____
 STOCKADE _____
 WELL _____
 Mailbox _____

PLAN LEGEND

Existing Proposed

Sanitary Sewer _____
 Telephone Line _____
 Electric Line _____
 Water Line _____
 Underdrain Line _____
 Gas Line _____
 Guardrail _____
 Culvert _____

Traveled Way _____
 Ditch _____
 Catch Basin _____
 Manhole _____
 Sewer Manhole _____
 Utility Pole _____
 Fire Hydrant _____
 Curbing _____

Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____

Fill Line _____
 Retaining Wall _____
 Traverse Point _____
 Pipe Found _____

STATE OF MAINE
 REGISTRY OF DEEDS

COUNTY _____
 RECEIVED _____
 at _____ h _____ m _____ M and recorded in
 Plan Book _____, Page _____
 Attest: _____ REGISTER

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 ADJUTING PROPERTY OWNERS.

25 0 25 50 75 100
 Scale of Feet

LOT SPLIT SURVEY OF THE
 STEPHEN PALMER PROPERTY
 BY FALLA & SONS LAND SURVEYS, INC.
 DATED: JULY 2014
 UNRECORDED

RICHARD D. PALMER, JR.
 SUZANNE H. PALMER
 ITEM NO. (1)
 SLOPE EASE. = 0.05± AC. (1)
 DRAINAGE EASE. = (1)
 CONST. & MAINT. EASE. = 798± S.F. (1)
 TOTAL AREA = 20.6± AC. (SURVEY)

GRID
 HORIZONTAL DATUM-US STATE PLANE
 TOWNSHIP-MEINE 2000 WEST
 VERTICAL DATUM-NAVD 88
 COMBINED FACTOR-0.99993676

MAGOTTY MEADOW BROOK

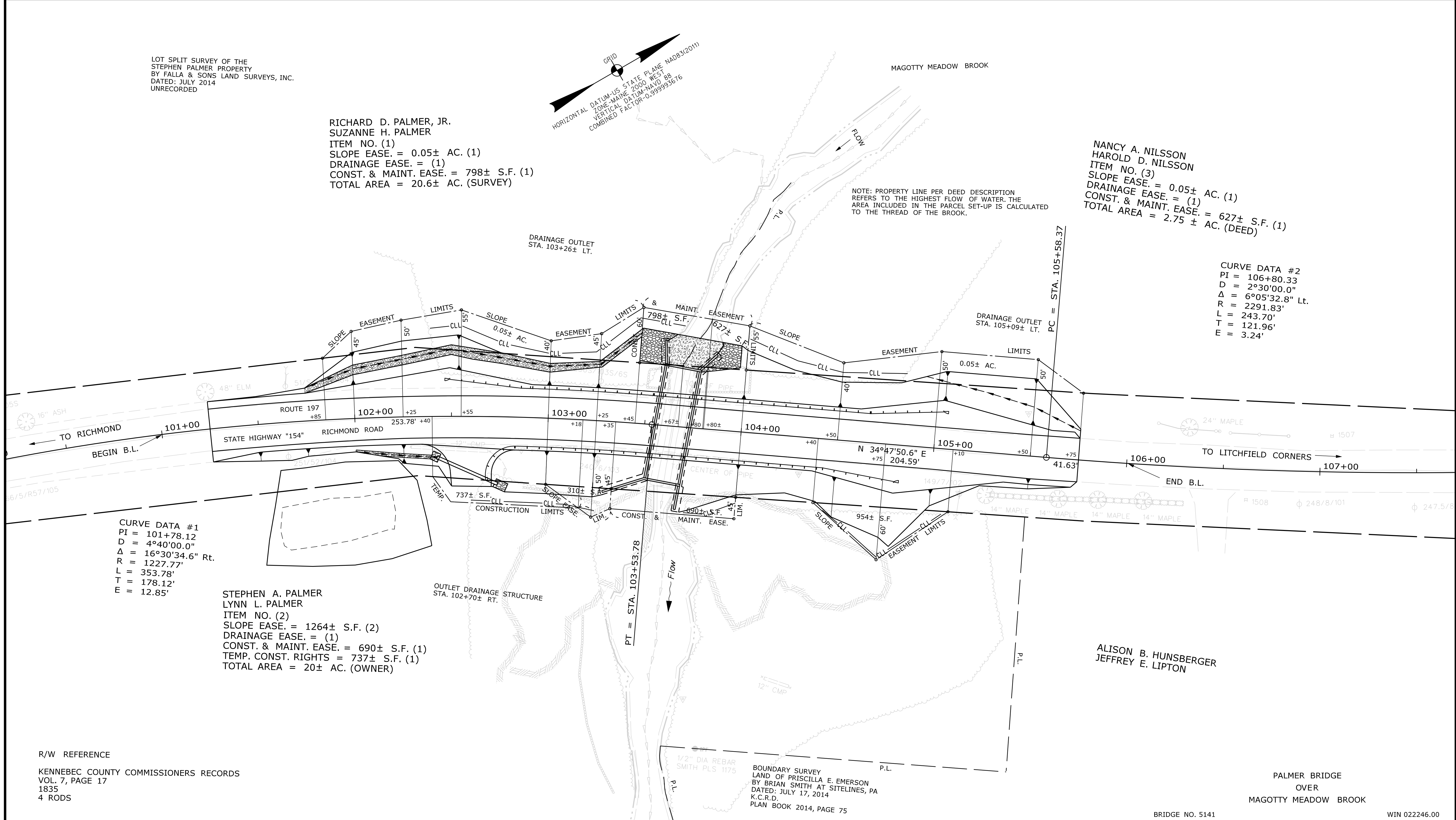
NANCY A. NILSSON
 HAROLD D. NILSSON
 ITEM NO. (3)
 SLOPE EASE. = 0.05± AC. (1)
 DRAINAGE EASE. = (1)
 CONST. & MAINT. EASE. = 627± S.F. (1)
 TOTAL AREA = 2.75± AC. (DEED)

CURVE DATA #2
 PI = 106+80.33
 D = 2°30'00.0"
 Δ = 6°05'32.8" Lt.
 R = 2291.83'
 L = 243.70'
 T = 121.96'
 E = 3.24'

CURVE DATA #1
 PI = 101+78.12
 D = 4°40'00.0"
 Δ = 16°30'34.6" Rt.
 R = 1227.77'
 L = 353.78'
 T = 178.12'
 E = 12.85'

STEPHEN A. PALMER
 LYNN L. PALMER
 ITEM NO. (2)
 SLOPE EASE. = 1264± S.F. (2)
 DRAINAGE EASE. = (1)
 CONST. & MAINT. EASE. = 690± S.F. (1)
 TEMP. CONST. RIGHTS = 737± S.F. (1)
 TOTAL AREA = 20± AC. (OWNER)

R/W REFERENCE
 KENNEBEC COUNTY COMMISSIONERS RECORDS
 VOL. 7, PAGE 17
 1835
 4 RODS



ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	D.W.B.	
FINAL RIGHT OF WAY	D.W.B.	
AREAS	D.W.B.	P.N.S.

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

ALISON B. HUNSBERGER
 JEFFREY E. LIPTON

PALMER BRIDGE
 OVER
 MAGOTTY MEADOW BROOK

BRIDGE NO. 5141 WIN 022246.00

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD			
				NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE		
						COND.	11/25/19	13406	282		

BRUCE A. VAN NOTE
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER

DATE _____

STATE HIGHWAY "154"
 ROUTE 197-RICHMOND ROAD
 LITCHFIELD KENNEBEC COUNTY
 STATE PROJECT NO. 22246.00

JULY 2019 RIGHT-OF-WAY MAP
 SCALE 1" = 25' SHEET 1 OF 1

D.O.T. FILE NO. 6-483

SHEET NUMBER
 20
 OF 20

Date: 12/10/2019
 Username: Mark Poulin
 Division: BRIDGE
 Filename: ... \00\ROW\MSTA001_RWPLAN1.dgn