

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

TRAFFIC DATA

Current (2019) AADT 2360
Future (2039) AADT 2830
DHV - % of AADT 10
Design Hour Volume 283
% Heavy Trucks (AADT) 9
% Heavy Trucks (DHV) 4
Directional Distribution (DHV) 38
18 kip Equivalent P 2.0 145
18 kip Equivalent P 2.5 138
Design Speed (mph) 50

MATERIALS

Concrete:
Curbs & Transition Barriers Class "LP"
All Other Class "A"
Reinforcing Steel ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete f 'c = 4,000 psi
Reinforcing Steel f y = 60,000 psi

LIST OF DRAWINGS

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WATERFORD
OXFORD COUNTY
WATERFORD HORRS BRIDGE
OVER
CROOKED RIVER
ROUTE 35
FEDERAL AID PROJECT No. 2237200
PROJECT LENGTH 0.096 mi.
BRIDGE NO. 5192

UTILITIES

Central Maine Power Company
Charter Communications
FairPoint Communications
Waterford Fire Department

MAINTENANCE OF TRAFFIC

Staged Construction: Maintain one lane of alternating traffic utilizing temporary traffic signals.

PROJECT LOCATION	Waterford Horrs Bridge #5192 carries State Route 35 over Crooked River Lat./Long. 44°-14'-06" N, 70°-46'-18" W
PROGRAM AREA	Bridge Program
OUTLINE OF WORK	Bridge Deck Replacement

ERDMAN
ANTHONY

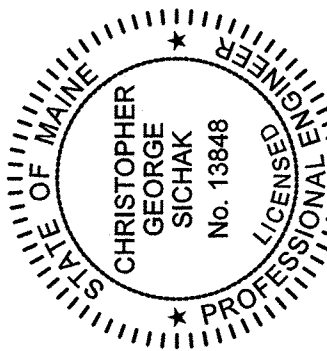


2237200 WIN 22372.00

WATERFORD
WATERFORD HORRS BRIDGE

TITLE SHEET

SHEET NUMBER
1
OF 21



Chris Sichak
SIGNATURE
13848
P.E. NUMBER
5/03/2019
DATE

PROJECT INFORMATION	PROGRAM	BRIDGE PROGRAM
PROJECT MANAGER	JOEL KITREDGE	
DESIGNER	CHRIS SICHAK	
CONSULTANT	ERDMAN ANTHONY	
PROJECT RESIDENT		
CONTRACTOR		
PROJECT COMPLETION DATE		

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>David M. Ayres</i>		
CHIEF ENGINEER: <i>David M. Ayres</i>		5-14-19

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.10	REMOVING EXISTING SUPERSTRUCTURE (PROPERTY OF CONTRACTOR) (67 CY)	1	LS
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	2	CY
202.202	REMOVING PAVEMENT SURFACE	880	SY
203.20	COMMON EXCAVATION	834	CY
203.24	COMMON BORROW	10	CY
304.10	AGGREGATE BASE COURSE - GRAVEL	710	CY
403.208	HOT MIX ASPHALT, 12.5 MM SURFACE	177	TON
403.213	HOT MIX ASPHALT, 12.5 MM BASE	168	TON
409.15	BITUMINOUS TACK COAT, APPLIED	114	GAL
502.219	STRUCTURAL CONCRETE, ABUTMENTS & RETAINING WALLS (5 CY)	1	LS
502.26	STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLAB ON STEEL BRIDGES (56 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (9 CY)	1	LS
503.12	REINFORCING STEEL, FABRICATED & DELIVERED	1000	LB
503.13	REINFORCING STEEL, PLACING	1000	LB
505.08	SHEAR CONNECTORS (490 EA)	1	LS
507.0821	STEEL BRIDGE RAILING, 3 BAR (110 LF)	1	LS
507.13	TEMPORARY BRIDGE RAILING	133	LF
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (204 SY)	1	LS
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (118 SY)	1	LS
518.50	REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL	10	SF
518.60	REPAIR OF VERTICAL SURFACES < 8 INCHES	10	SF
524.301	TEMPORARY STRUCTURAL SUPPORT - LATERAL BRACING	1	LS
526.301	TEMPORARY CONC BARRIER, TYPE 1 (100 LF)	1	LS
526.305	TEMPORARY CONC BARRIER, BRACED TYPE 1 (70 LF)	1	LS
526.34	PERMANENT CONCRETE TRANSITION BARRIER	4	EA
527.34	WORK ZONE CRASH CUSHIONS	2	UN
606.1301	31"W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)	220	LF
606.1303	31"W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)	24	LF
606.1305	31"W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (31" HEIGHT)	3	EA
606.1307	BRIDGE TRANSITION (ASYMMETRICAL) - TYPE "1A"	4	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.08	PLAIN RIPRAP	40	CY
613.319	EROSION CONTROL BLANKET	30	SY
615.07	LOAM	6	CY
618.14	SEEDING METHOD NUMBER 2, PLAN QUANTITY	1	UN
619.12	MULCH - PLAN QUANTITY	1	UN
619.14	EROSION CONTROL MIX	40	CY
620.58	EROSION CONTROL GEOTEXTILE	60	SY
627.733	WHITE OR YELLOW PAVEMENT MARKING LINE	2300	LF
627.77	REMOVING EXISTING PAVEMENT MARKING	370	SF
627.78	TEMPORARY 4" PAINT PAVEMENT MARK LINE WHITE OR YELLOW	644	LF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL-PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.172	TRUCK-LARGE (INCLUDING OPERATOR)	10	HR
637.071	DUST CONTROL	1	LS
639.19	FIELD OFFICE, TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADES	2	EA
652.33	DRUM	40	EA
652.34	CONE	25	EA
652.35	CONSTRUCTION SIGNS	255	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (120 CD)	1	LS
652.38	FLAGGER	200	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
656.75	TEMPORARY SOIL EROSION AND POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. The clearing limits 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.

2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted or as detailed in the plans.

3. For easements, construction limits and right of way lines, refer to Right of Way Map.

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 6 inches or less thick will be made under appropriate rental items.

6. 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.

7. Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.

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

9. 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.

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

All exposed surfaces of concrete curbs,
Fascias down to drip notch,
All exposed surfaces of Concrete Transition Barriers,
One foot below grade on the back side of Backwall
and the newly placed wingwall concrete.

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

12. 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.

13. 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 Specification Section 109.7, Equitable Adjustments to Compensation.

14. The existing bridge deck shall be removed by and become the property of the Contractor.

15. Steel portions of the existing bridge may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge deck. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge deck is removed, the Contractor is solely responsible for the care, custody and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment for all labor, materials, equipment and other costs required to remove and dispose of the existing bridge deck will be considered incidental to the superstructure removal pay item.

16. When removing the existing bridge drains, the Contractor shall remove the support bars flush with the existing girder and the area of disturbed paint on the bridge shall be painted with a zinc rich paint. Payment for touch up paint will be considered incidental to Item No. 202.10, Removing Existing Bridge. No separate payment will be made.

17. Where new pavement joins existing pavement, the existing pavement shall be saw cut along a smooth line to a neat, even, vertical joint, as directed by the Resident. Broken or raveled edges will not be permitted. All work necessary for the preparation of this joint will be considered incidental to the related Contract items.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2237200

WIN
22372.00

BRIDGE NO. 6192
BRIDGE PLANS

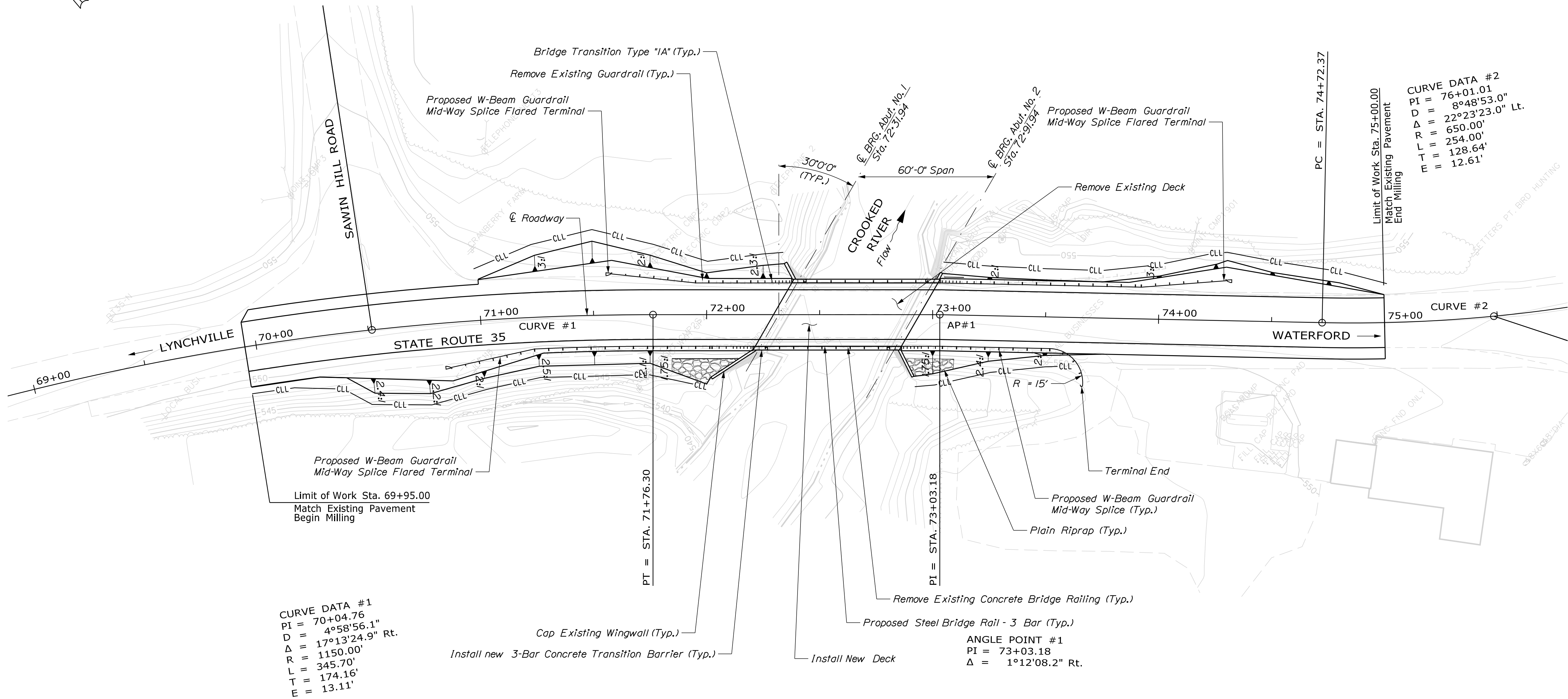
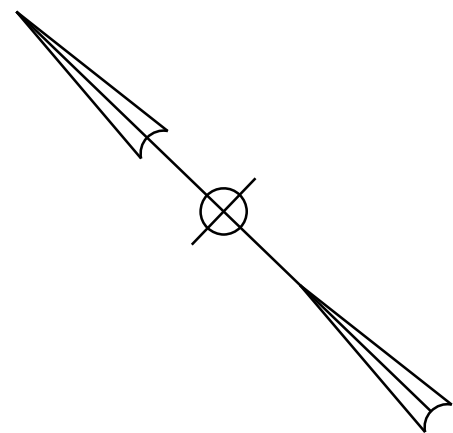
WATERFORD HORRS BRIDGE
CROOKED RIVER
WATERFORD OXFORD COUNTY

ESTIMATED QUANTITIES
& GENERAL NOTES

SHEET NUMBER

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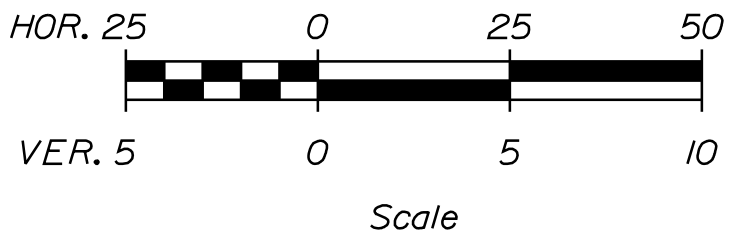
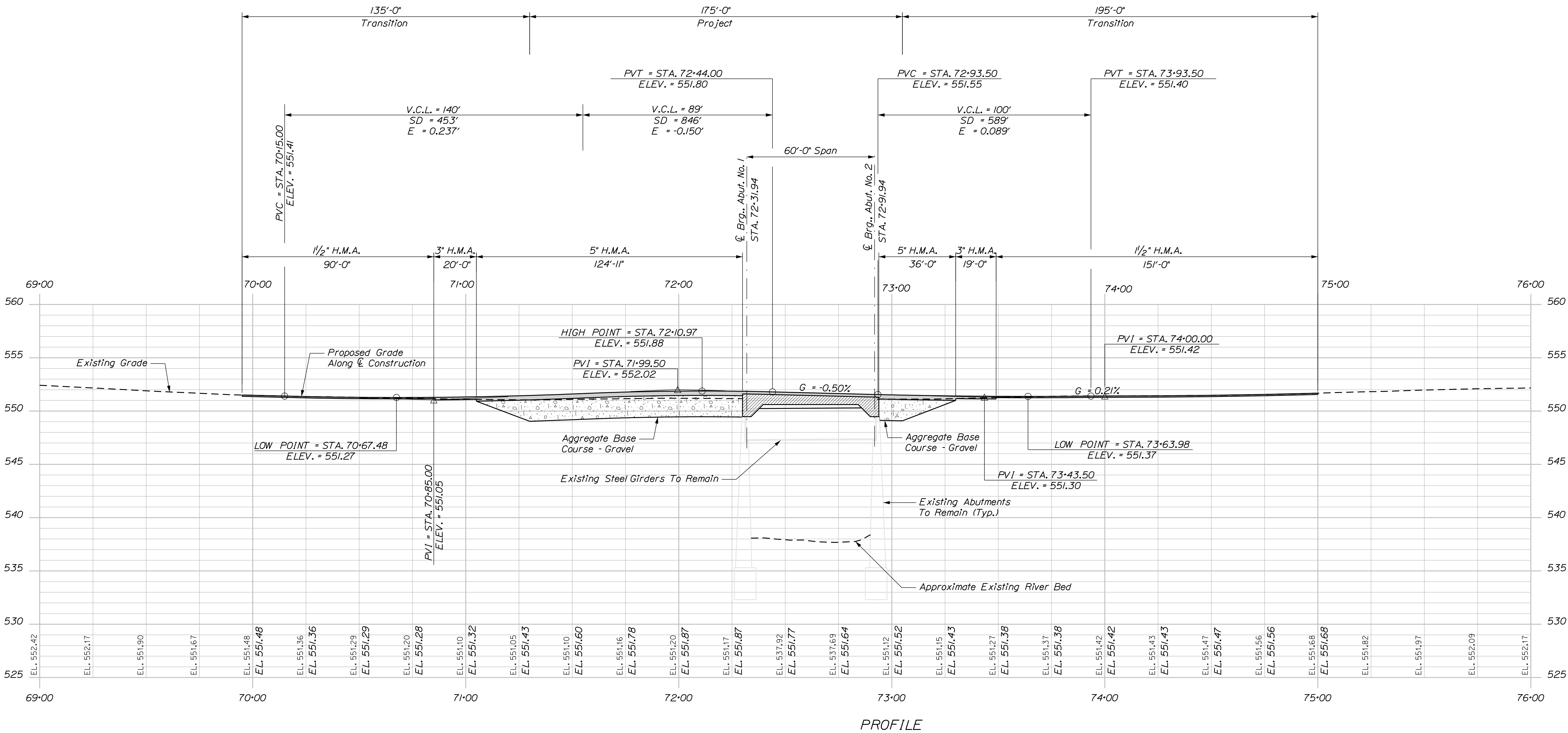
OF 21



PLAN



WATERFORD HORRS BRIDGE CROOKED RIVER WATERFORD OXFORD COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
	2237200	
	BRIDGE NO. 5192	WIN 22372.00
GENERAL PLAN	SIGNATURE	
	P.E. NUMBER	
	DATE	
SHEET NUMBER 3 OF 21	BRIDGE PLANS	

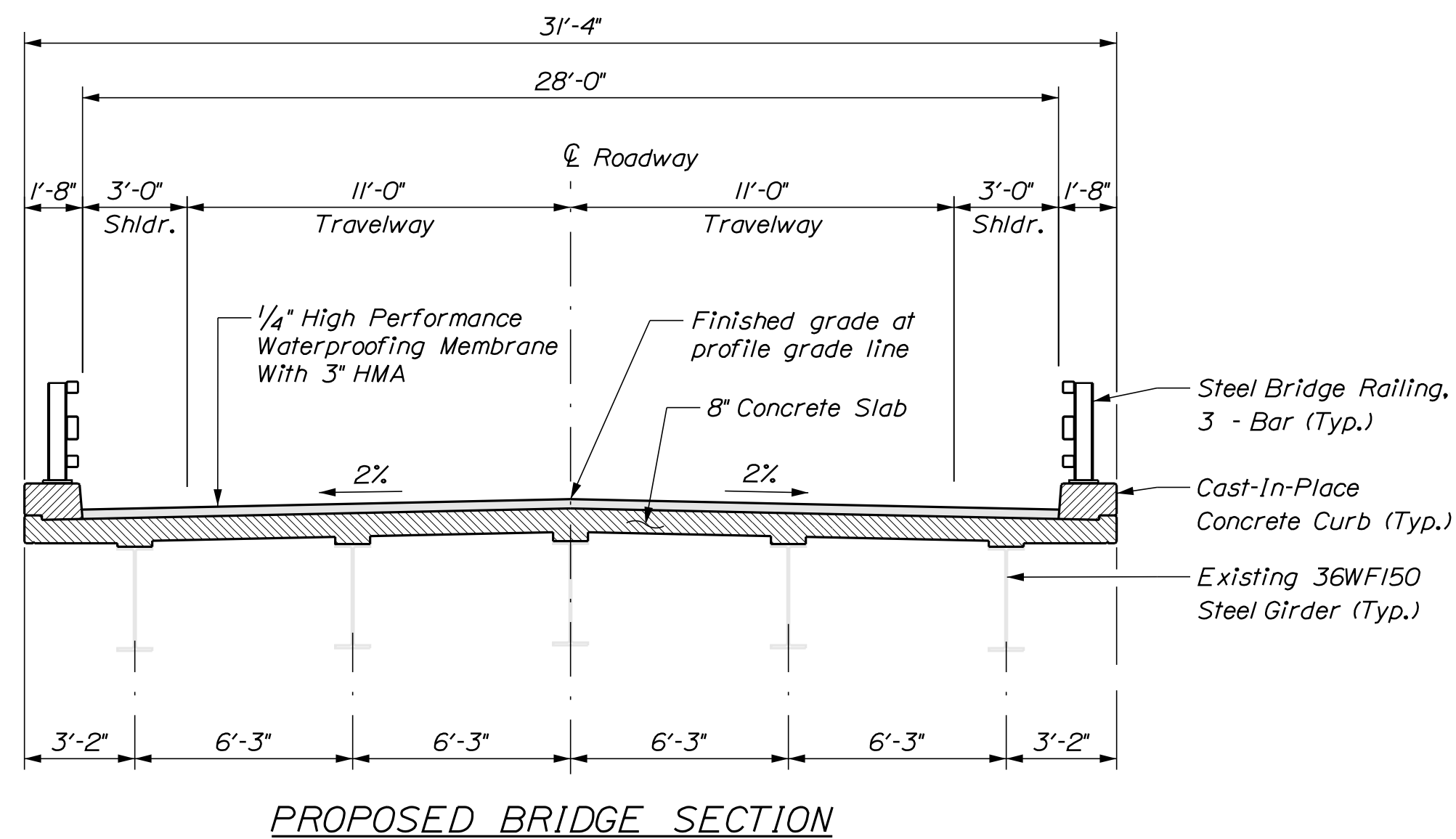
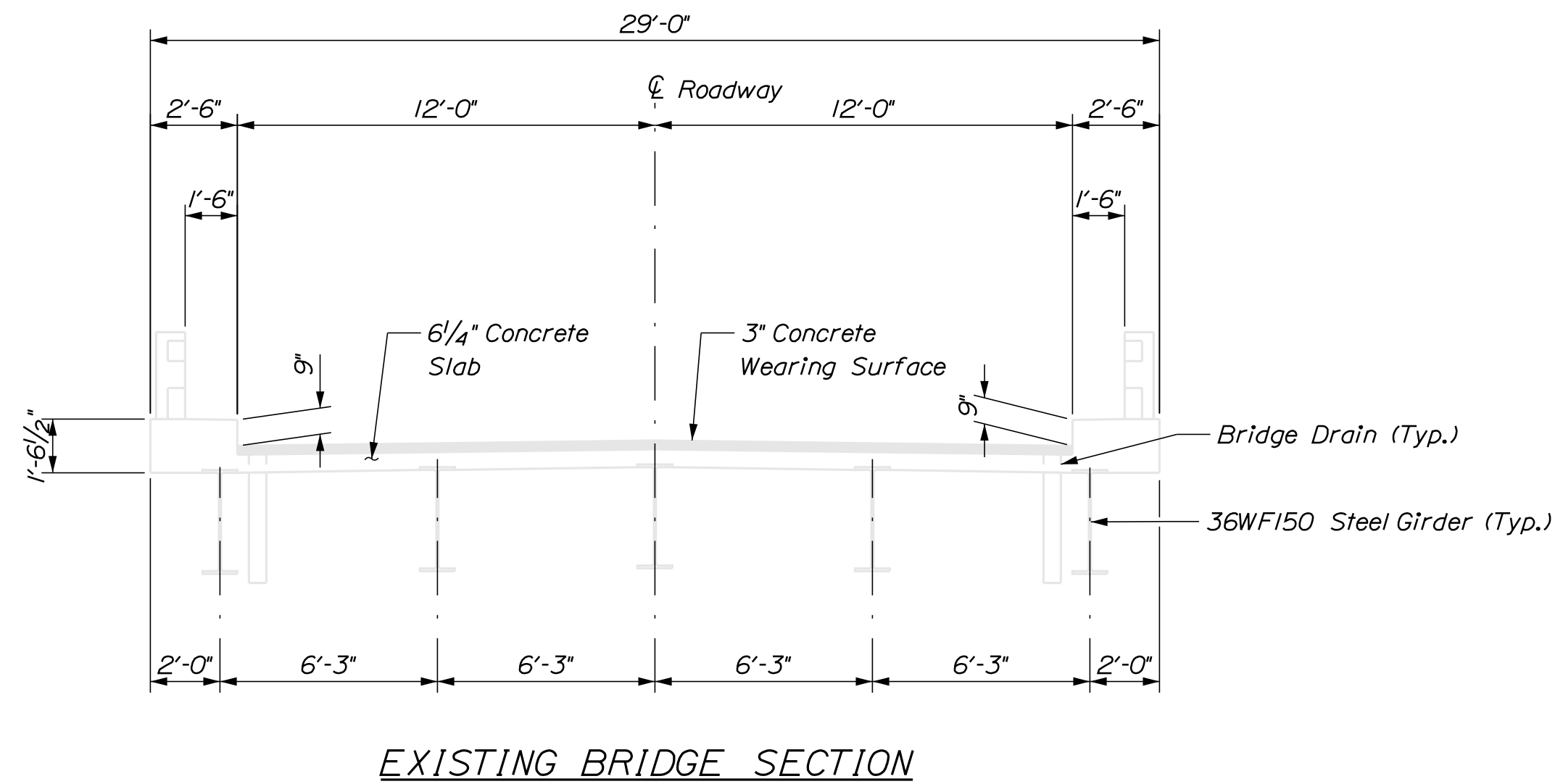
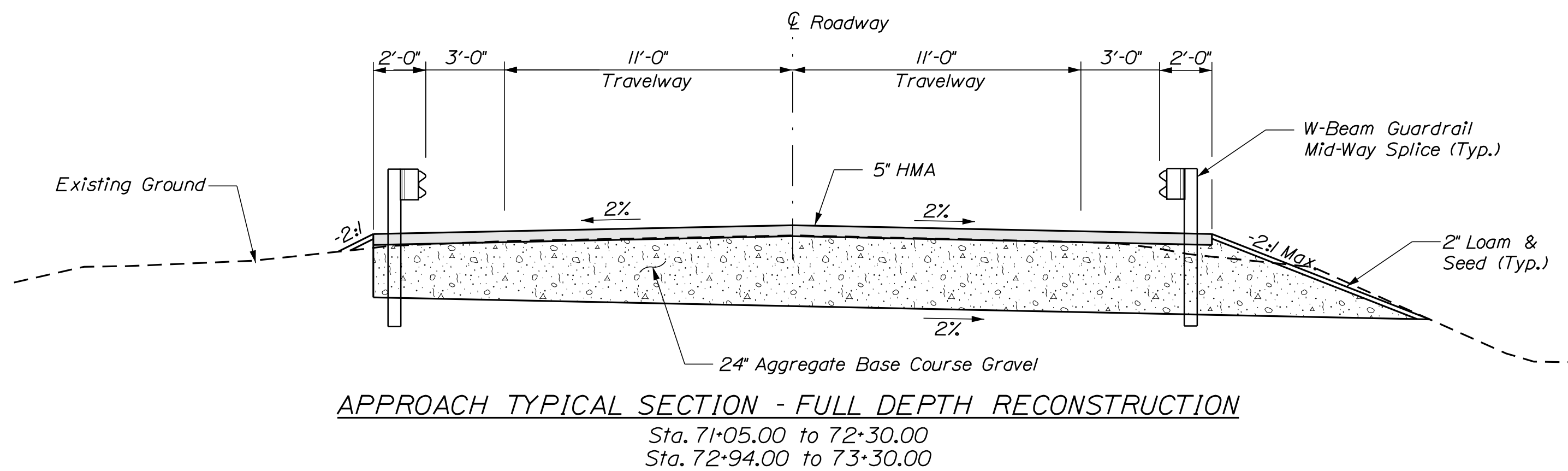
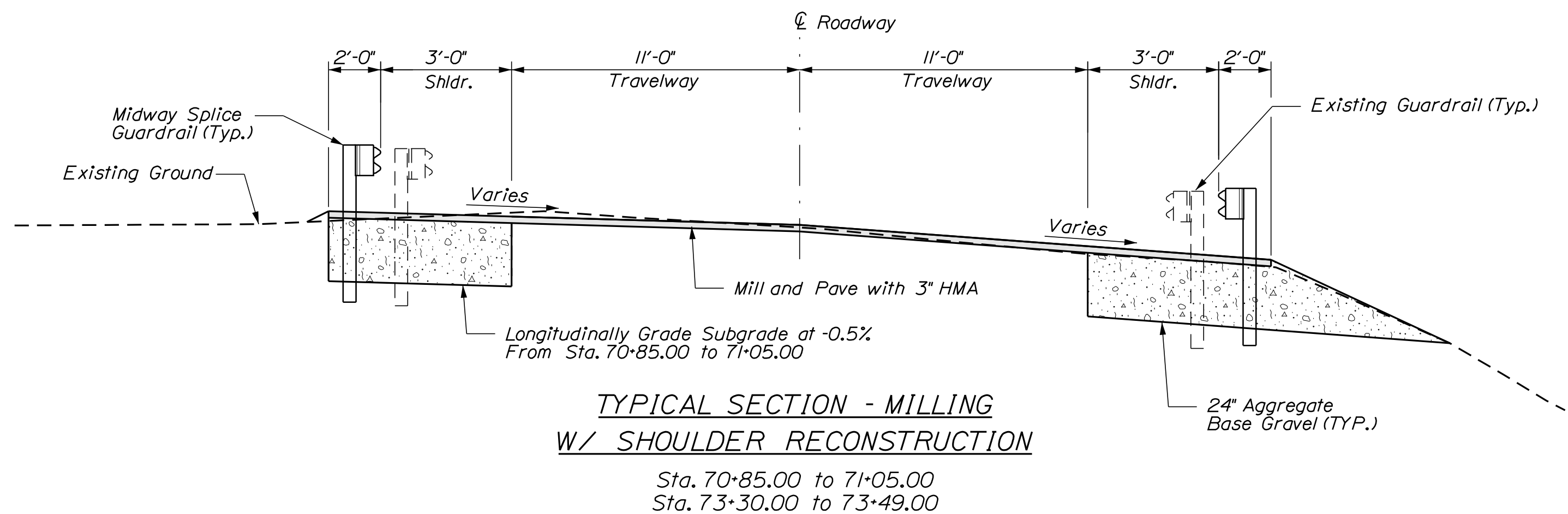
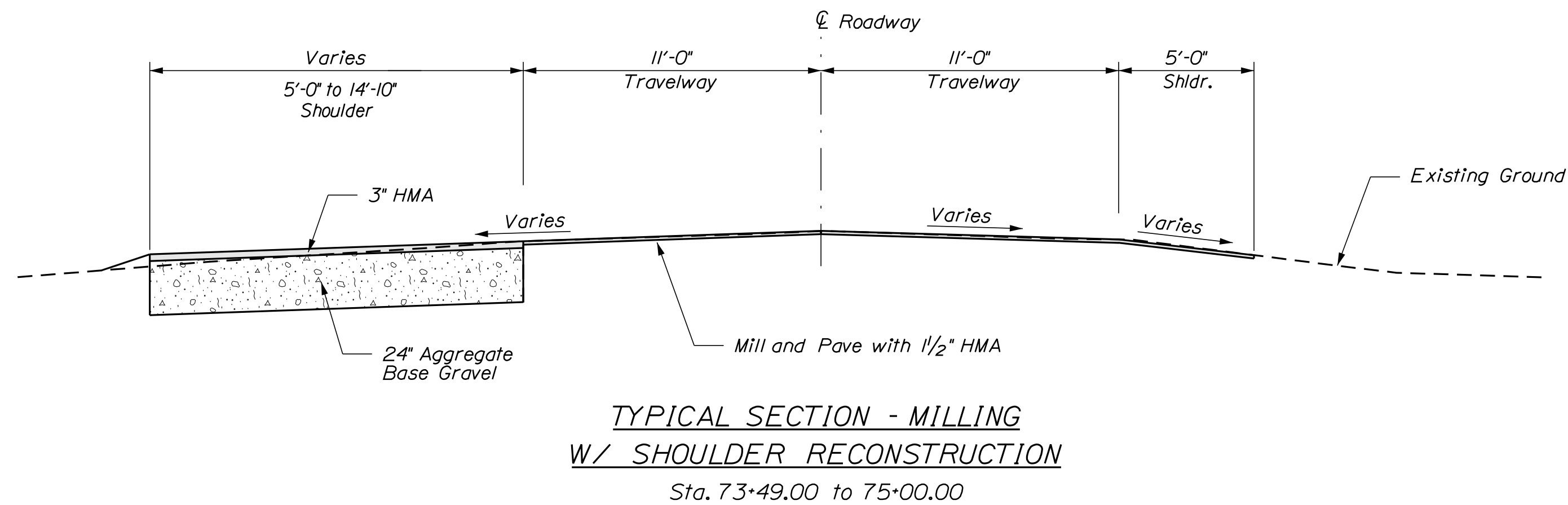
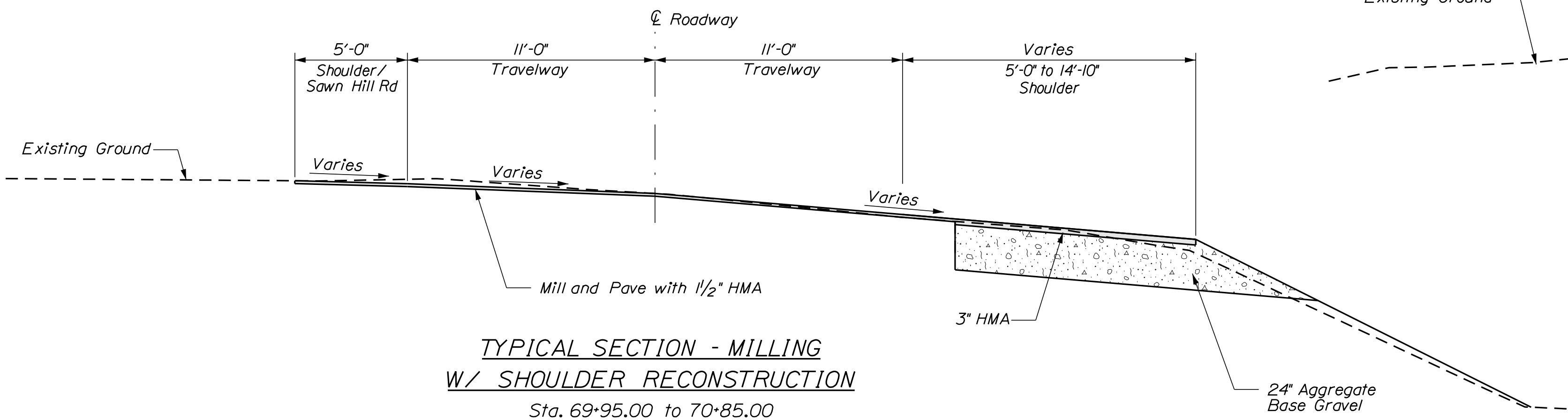


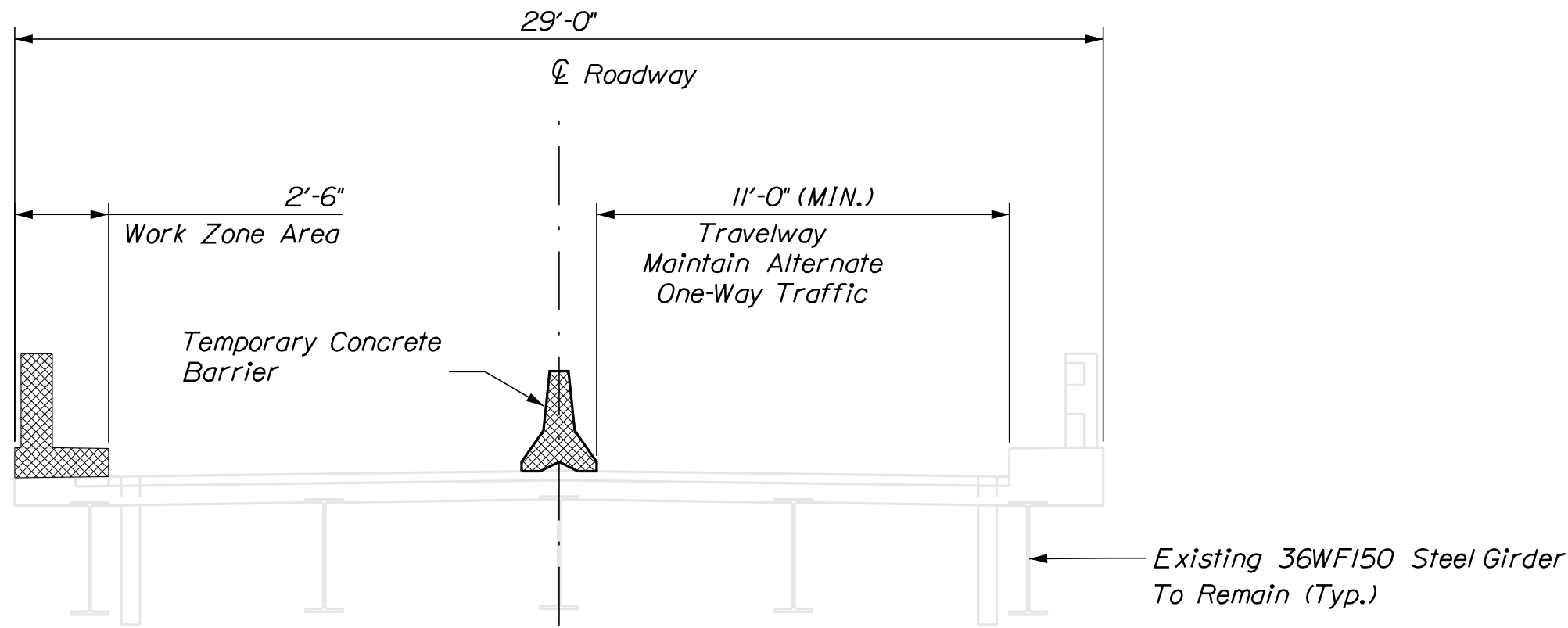
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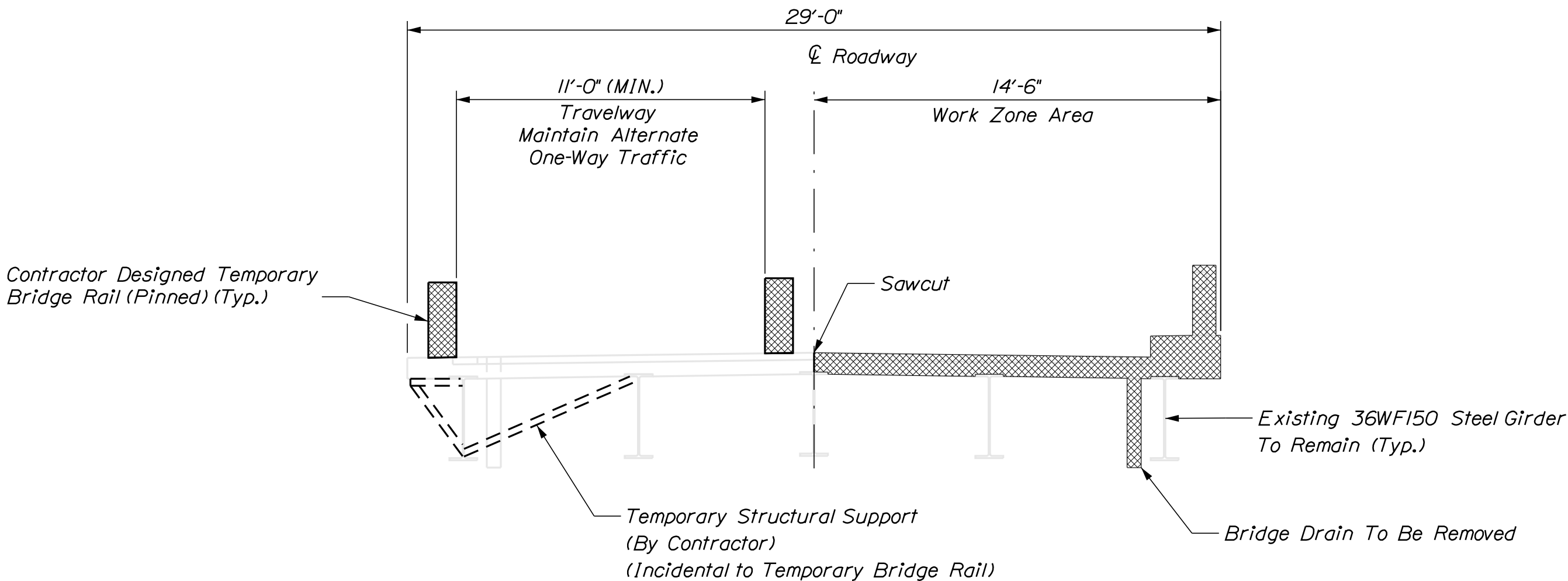
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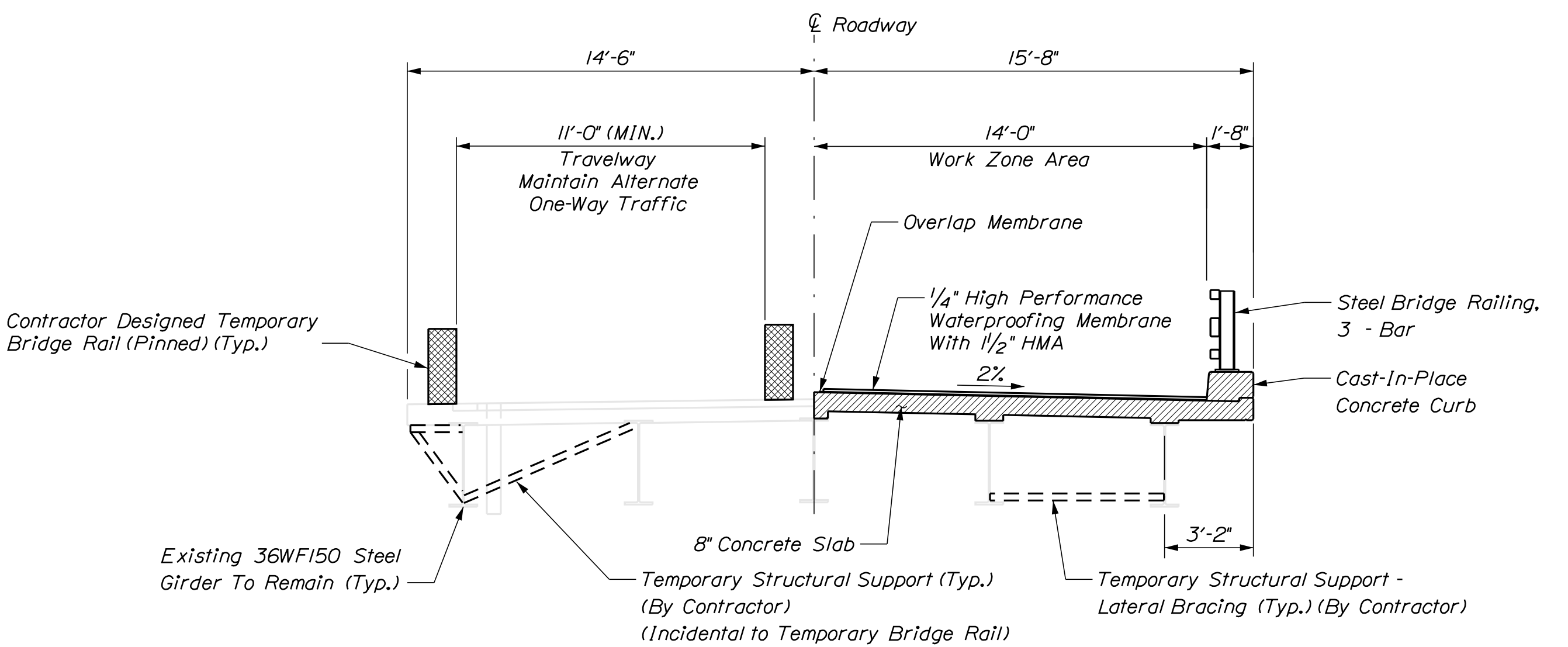




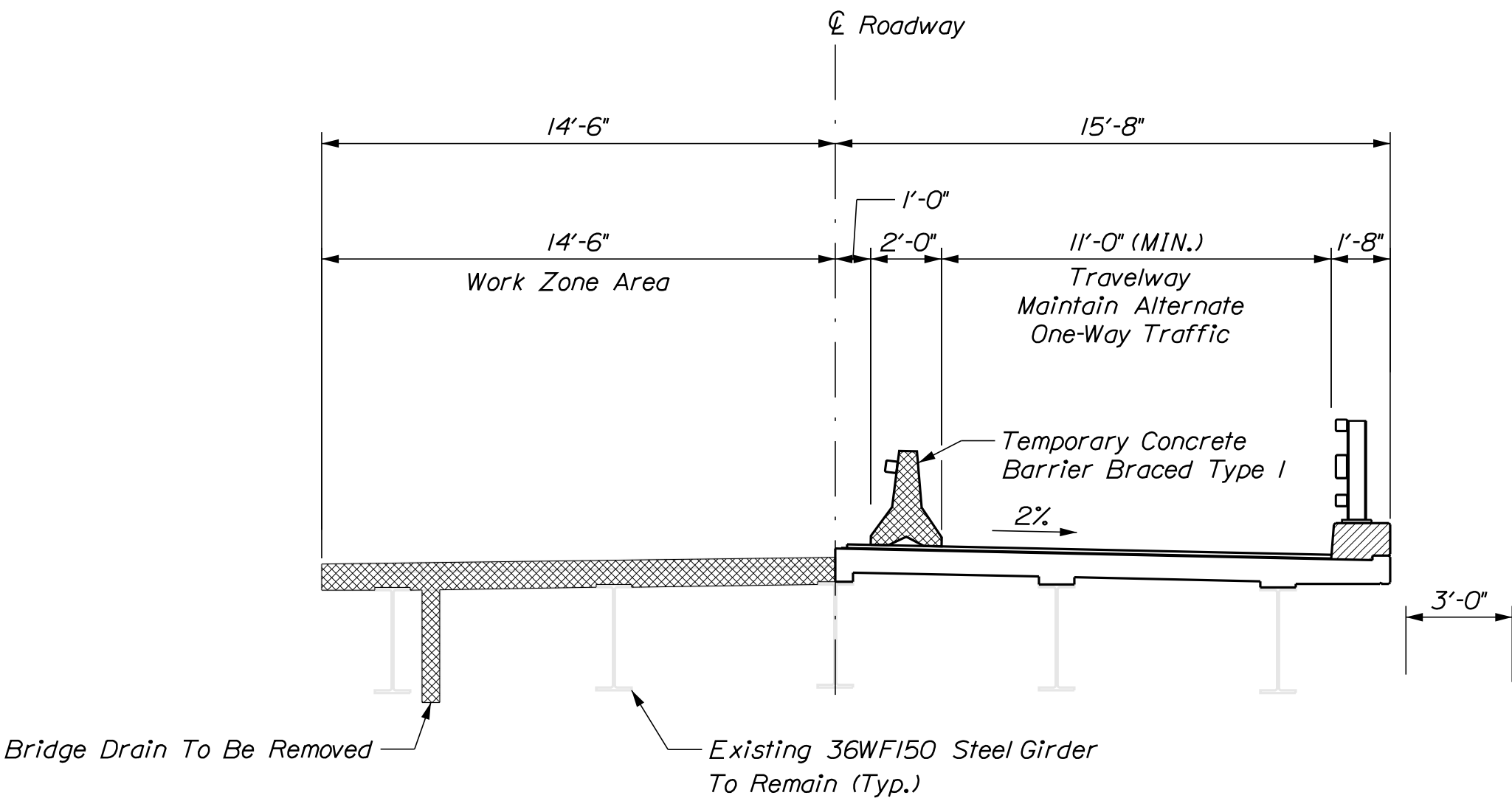
STAGE 1A - DEMOLITION



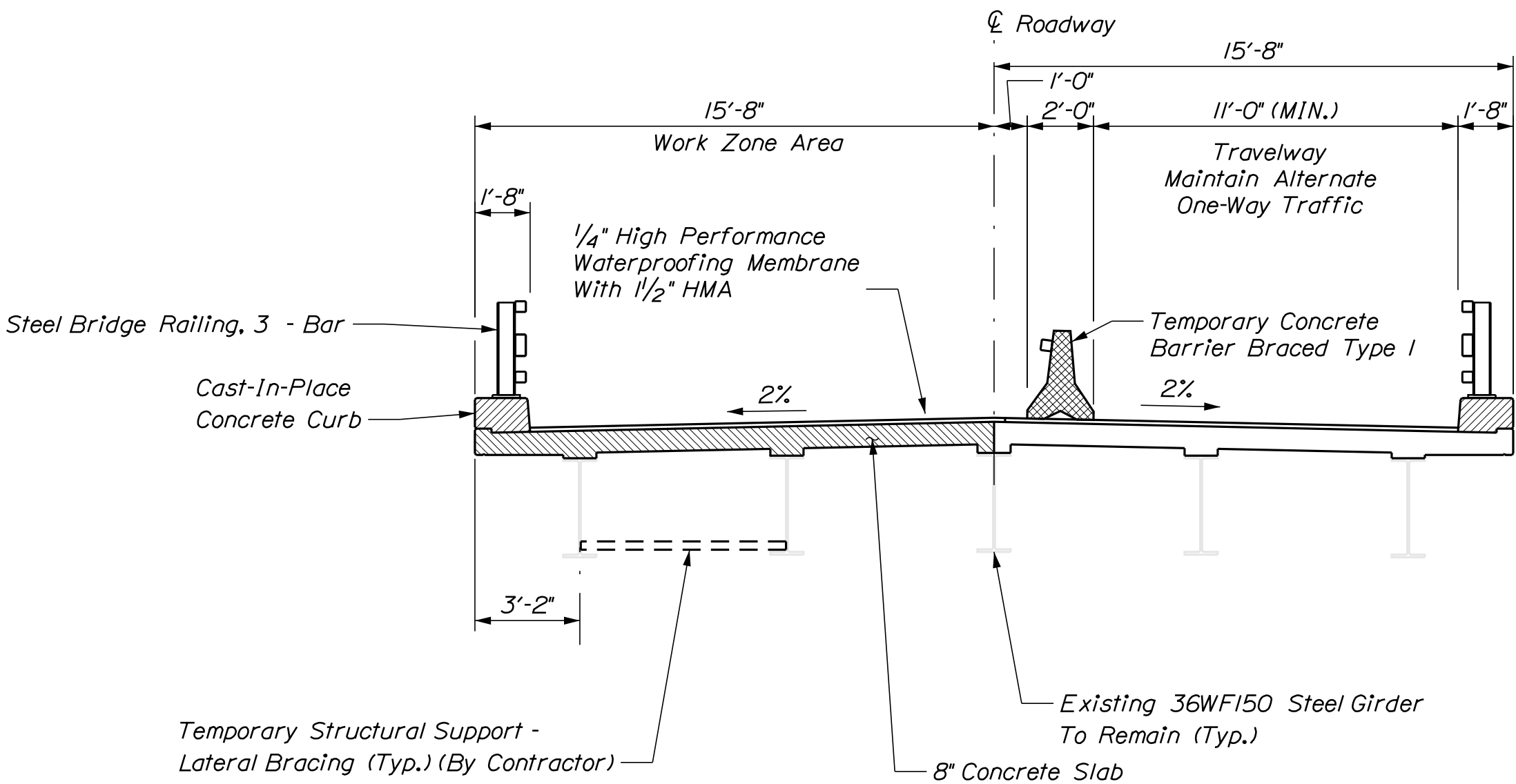
STAGE 1B - DEMOLITION



STAGE 1 - CONSTRUCTION



STAGE 2 - DEMOLITION



STAGE 2 - CONSTRUCTION

NOTES:
1. Place surface pavement as one operation with alternating one-way traffic and flaggers.

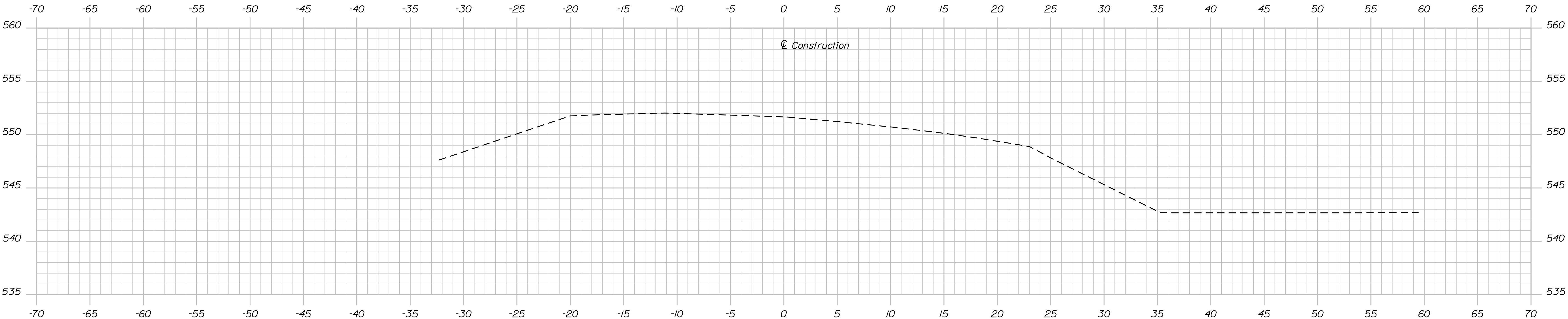
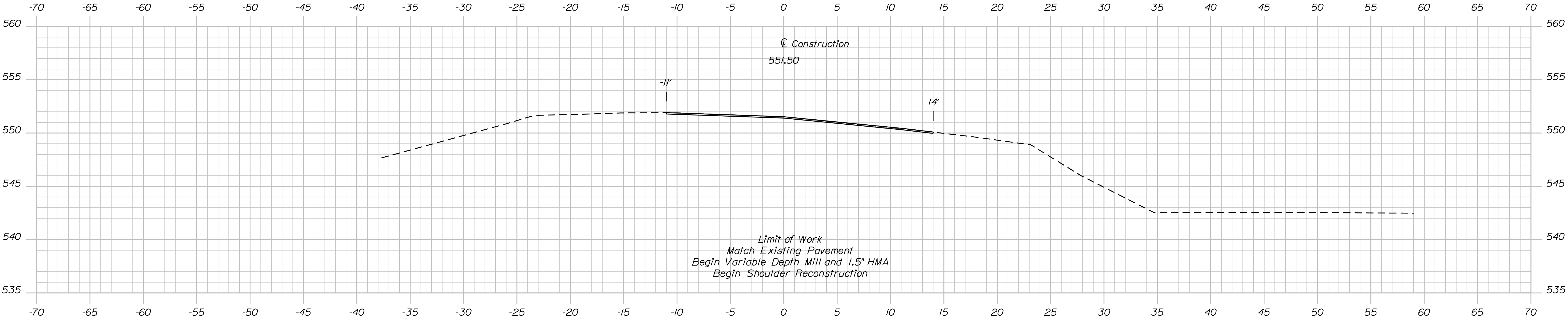
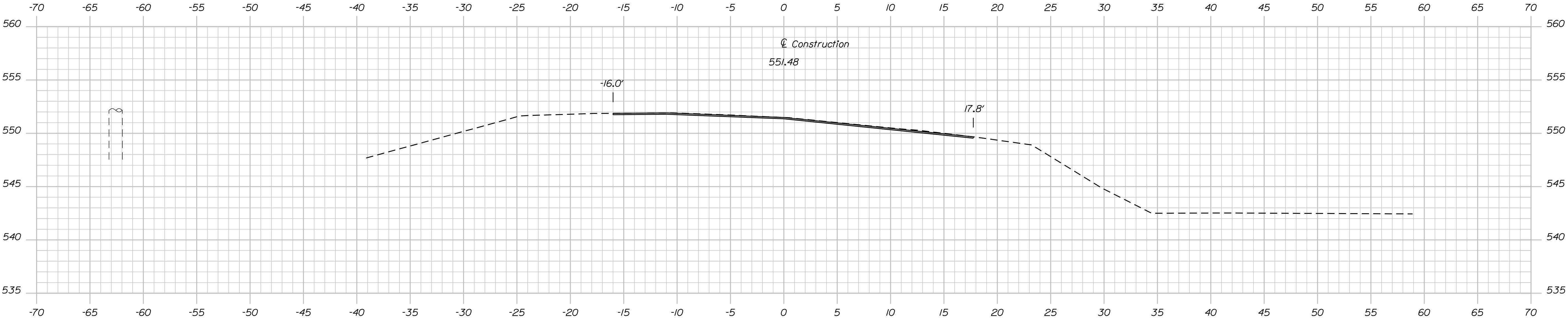
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						DESIGN-DETAILED E. FARRELL	T. LINDO	4/2019		
						CHECKED-REVIEWED C. SICHAK	C. SICHAK	4/2019	SIGNATURE	
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				REVISIONS 2						
				REVISIONS 3						
				REVISIONS 4						
				FIELD CHANGES					DATE	
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									WIN	
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									BRIDGE PLANS	

Date:5/7/2019

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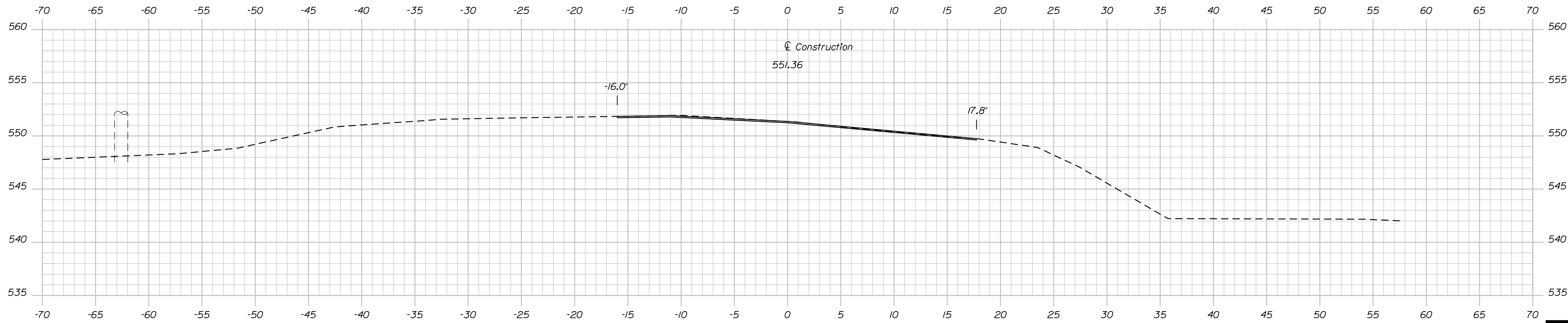
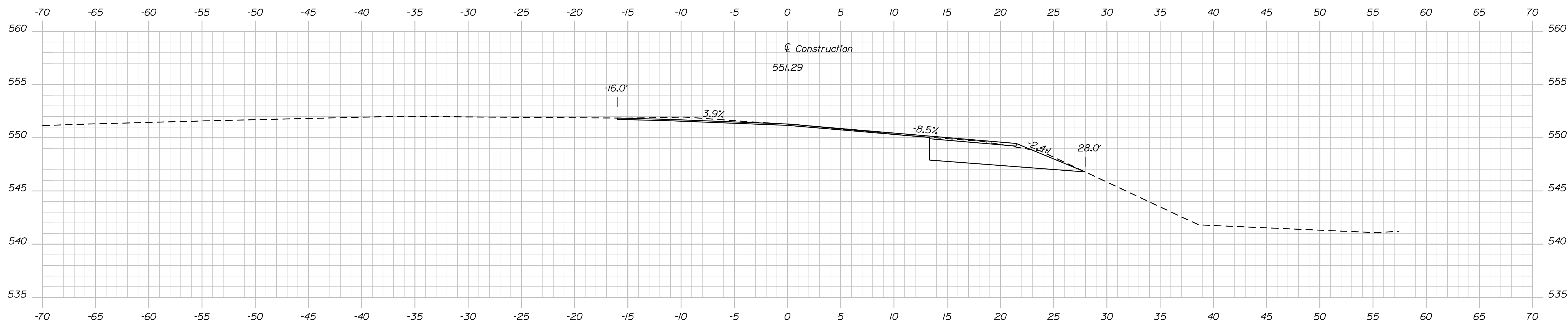
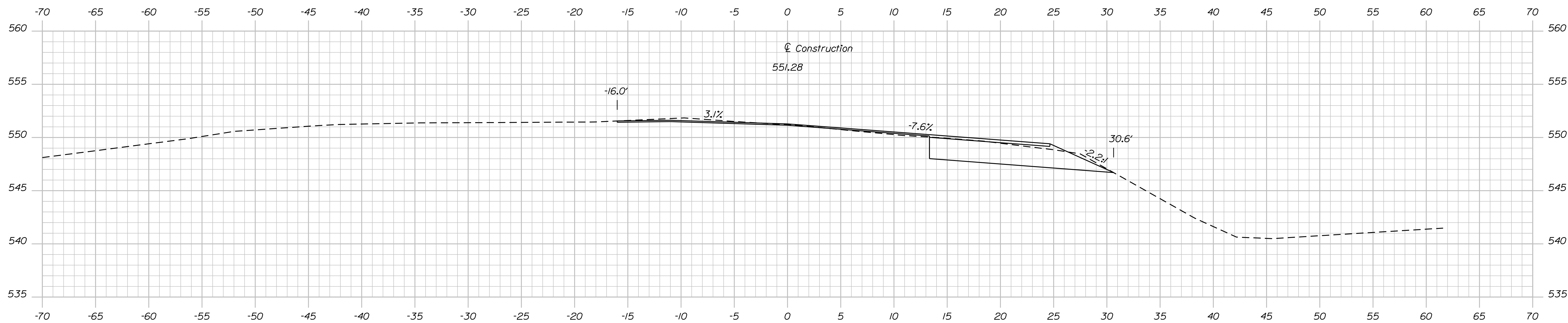


STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2237200	
WIN	22372.00
BRIDGE NO. 5192	
BRIDGE PLANS	

PROJ. MANAGER	JOEL KITREDOE	BY	I. LINDO	DATE	4/2019
DESIGN-DETAILED	E. FARRELL	CHECKED-REVIEWED	C. SCHAK	SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

WATERFORD HORRS BRIDGE	
CROOKED RIVER	
OXFORD COUNTY	
WATERFORD	
CROSS SECTIONS	

SHEET NUMBER	
2	
OF 21	



ERDMAN
ANTHONY

WATERFORD HORRS BRIDGE
CROOKED RIVER
WATERFORD OXFORD C

CROSS SECTIONS

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OF 21

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

2237200

WIN

RIDGE NO. 5192

RIDGE NO. 5192

BRIDGE PLANS

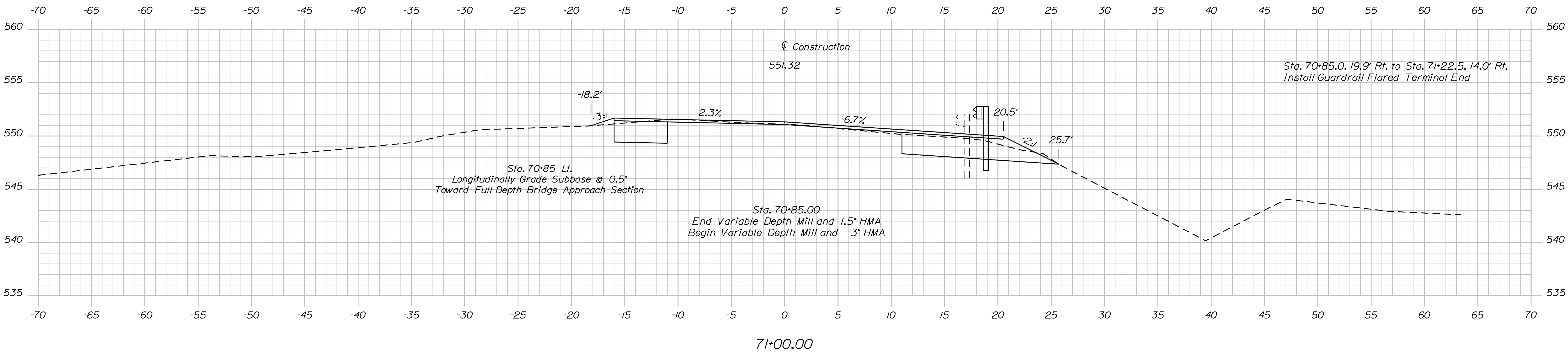
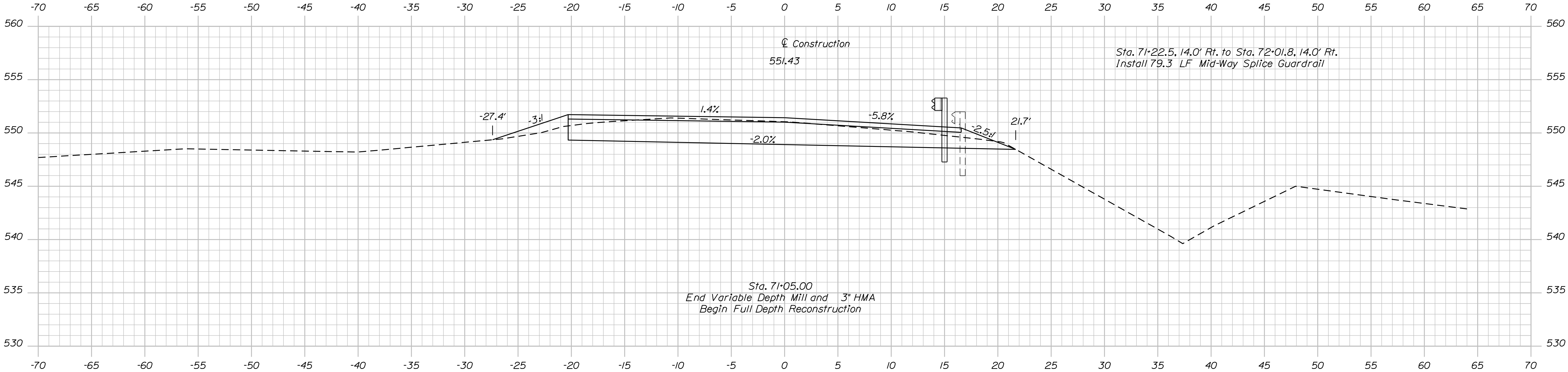
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DESIGN-DETAILED	E. FARELL	T. LINDO	
CHECKED-REVIEWED	C. SIOHAK	C. SIOHAK	4/2/09
DESIGN-DETAILED 2			
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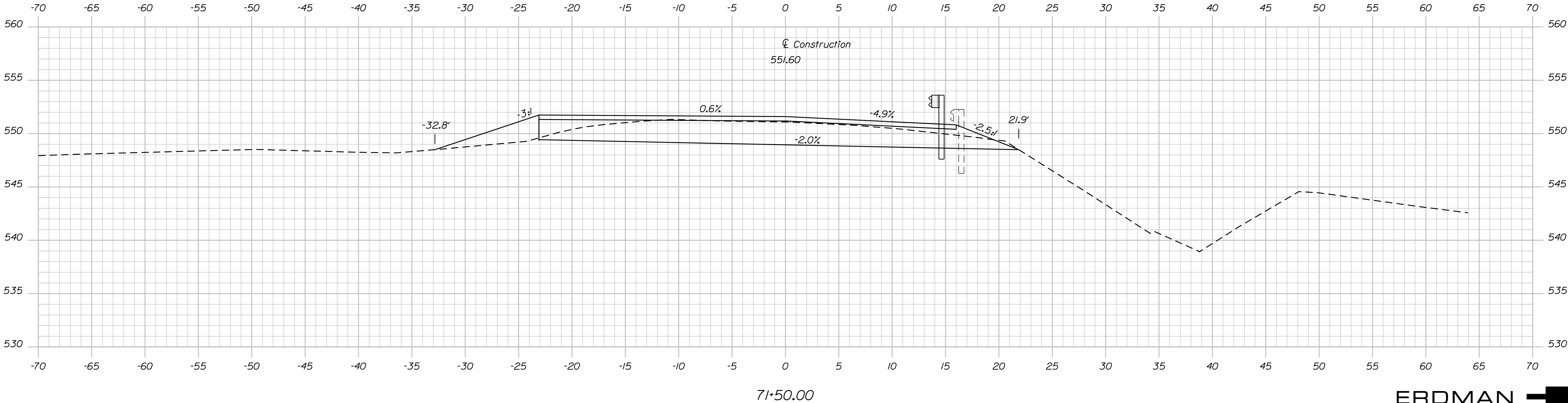
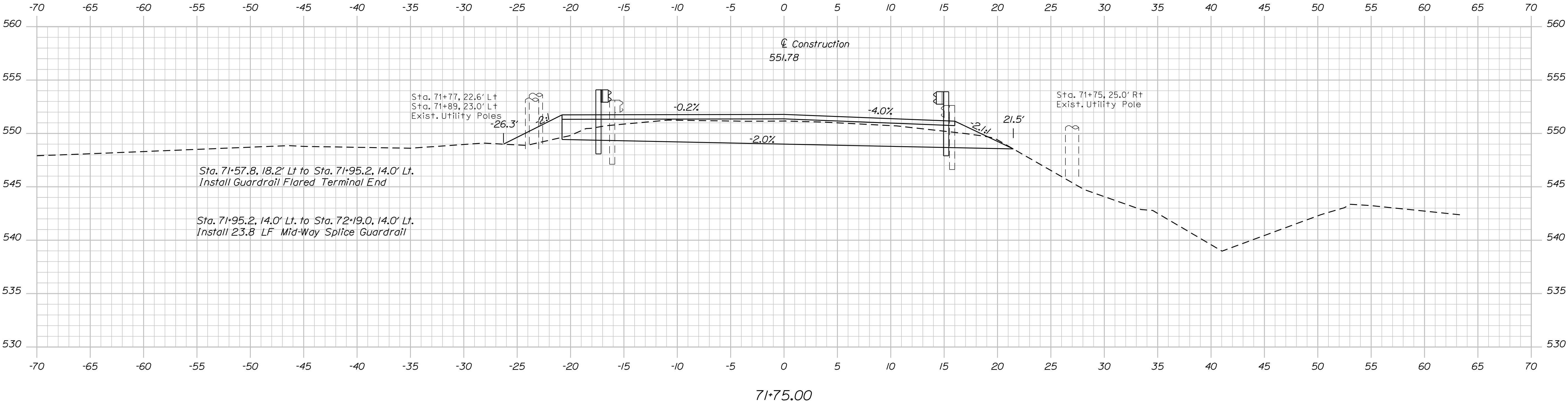
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WATERFORD	P.E. NUMBER
	DATE

Date:5/7/2019

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STATE OF MAINE	
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2237200	
WIN	22372.00
BRIDGE NO. 5192	BRIDGE PLANS

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FIELD CHANGES					

WATERFORD HORRS BRIDGE	OXFORD COUNTY
CROOKED RIVER	
WATERFORD	
CROSS SECTIONS	

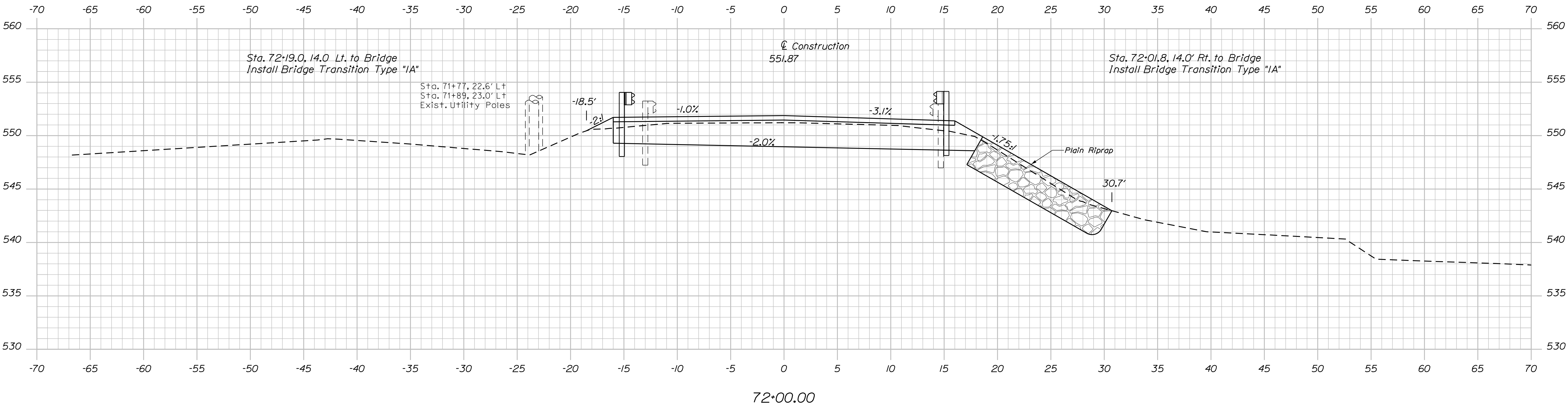
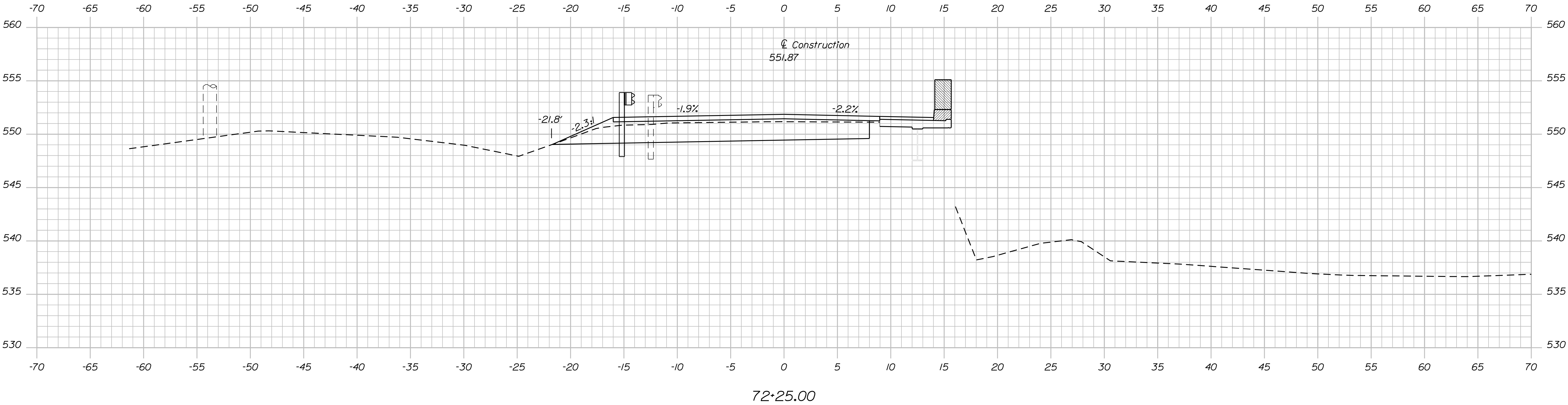
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BRIDGE NO. 5192

BRIDGE PLANS

WATERFORD HORRS BRIDGE
CROOKED RIVER
OXFORD COUNTY

WATERFORD

CROSS SECTIONS

SHEET NUMBER

11

OF 21

PROJ. MANAGER	JOEL KITREDOE	BY	DATE
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CHECKED-REVIEWED	C. SCHAK	C. SCHAK	4/2019
DESIGNS-DETAILED			
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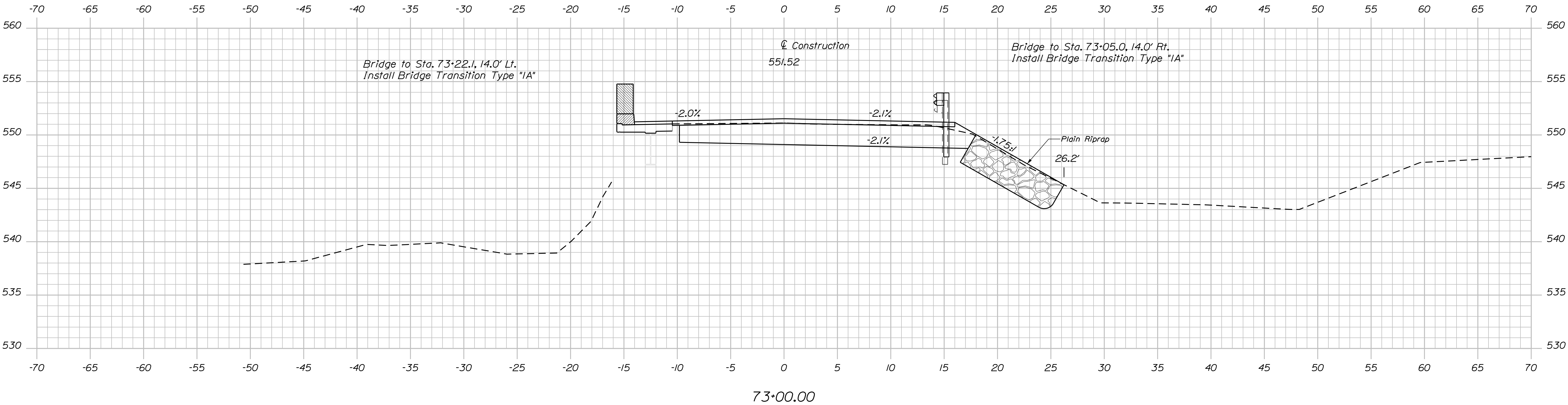
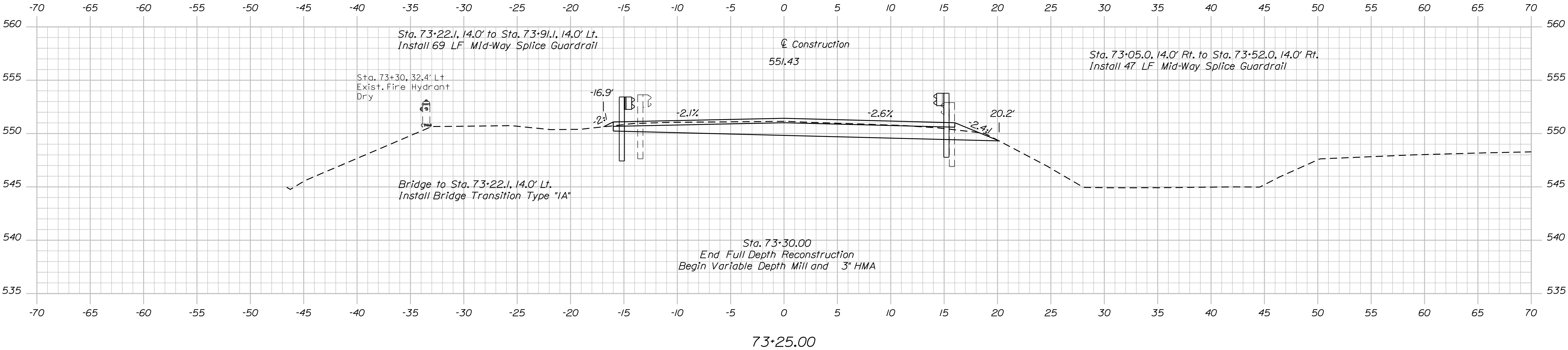
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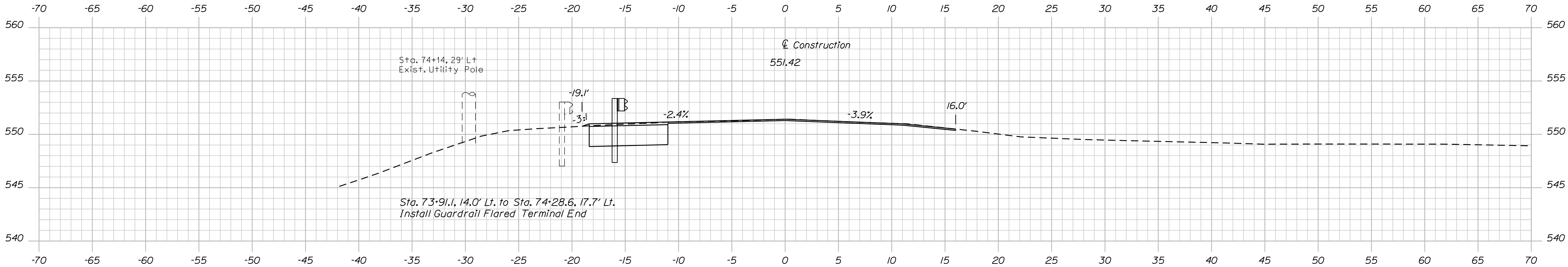
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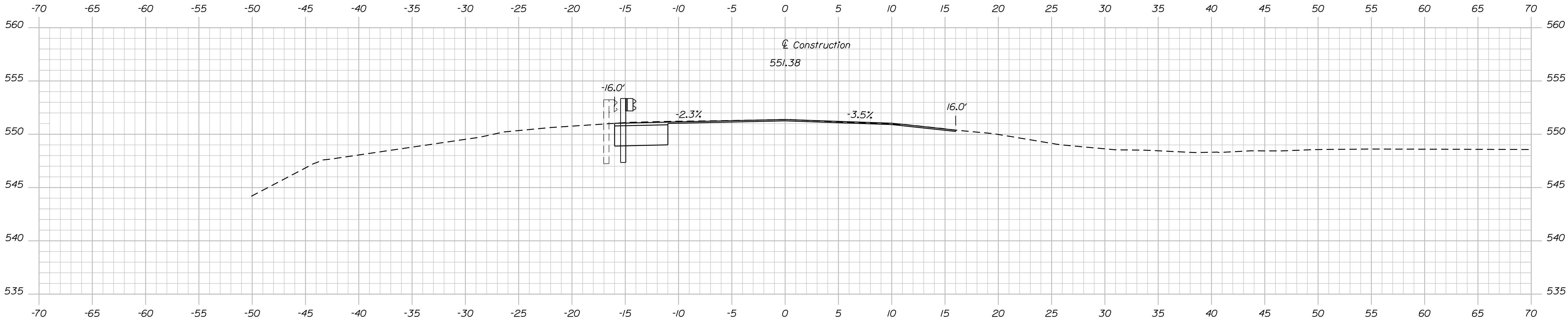
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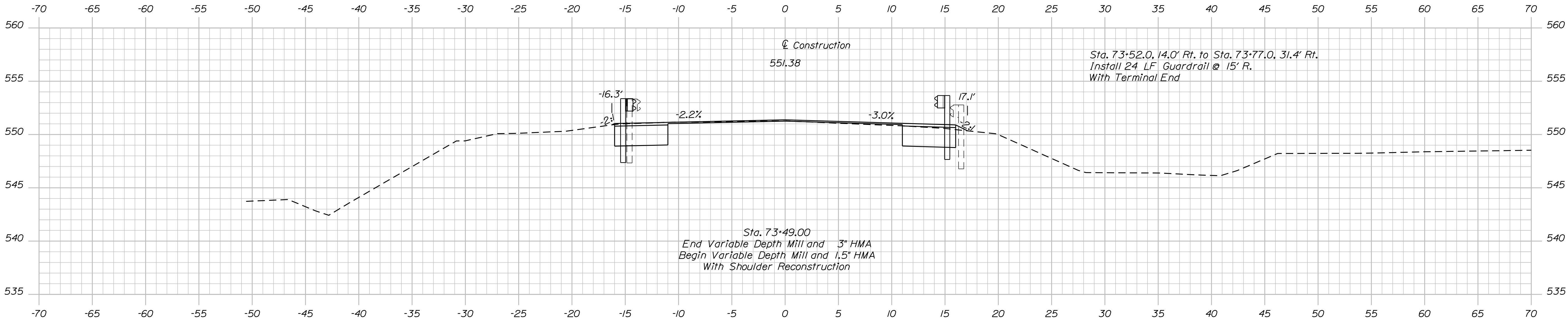
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73+75.00



73+50.00



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BRIDGE PLANS	

PROJ. MANAGER	JOEL KITREDOE	BY	I. LINDO	DATE	4/2019
DESIGN-DETAILED	E. FARRELL	CHECKED-REVIEWED	C. SCHAK	SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

WATERFORD HORRS BRIDGE	
CROOKED RIVER	
OXFORD COUNTY	
WATERFORD	
CROSS SECTIONS	

SHEET NUMBER	
13	
OF 21	

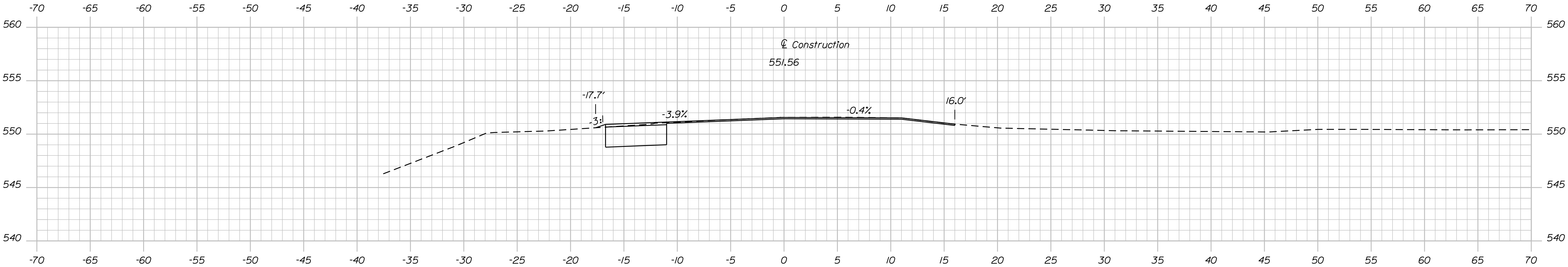
Sta. 73+50.00 to Sta. 74+00.00

Date:5/7/2019

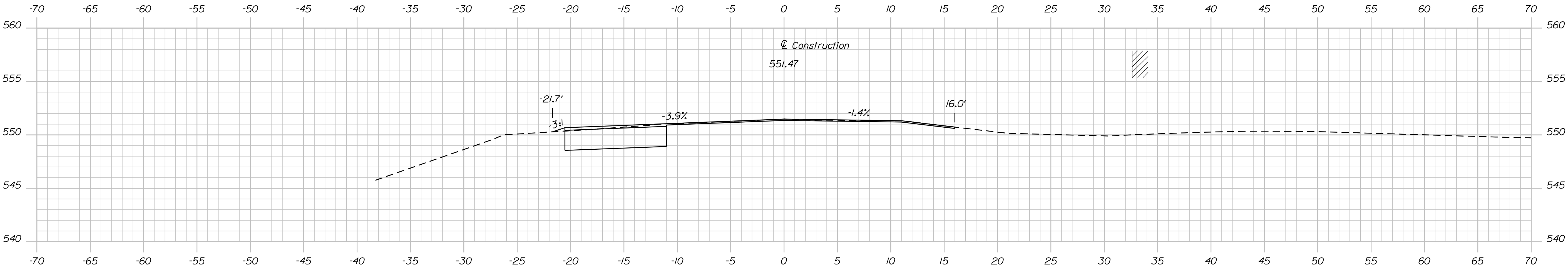
Username:

Division: BRIDGE

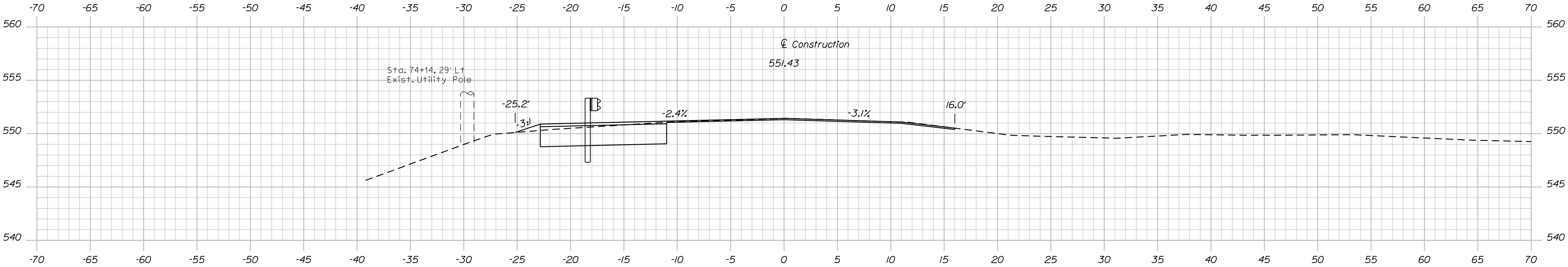
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74+75.00



74+50.00



74+25.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2237200

WIN
22372.00

BRIDGE NO. 5192

BRIDGE PLANS

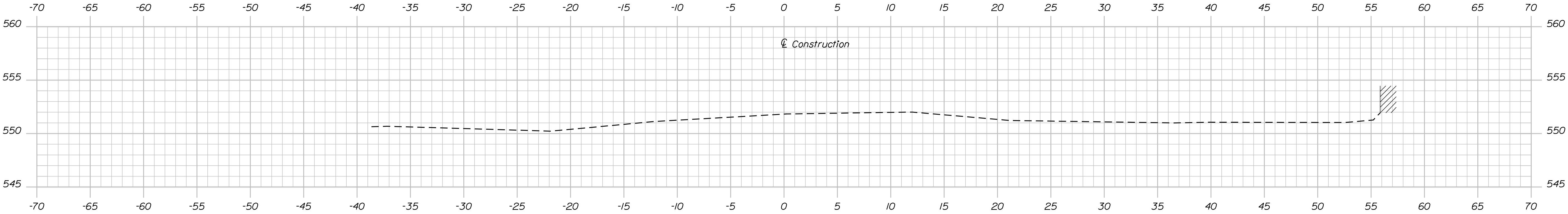
WATERFORD HORRS BRIDGE
CROOKED RIVER
WATERFORD OXFORD COUNTY

CROSS SECTIONS

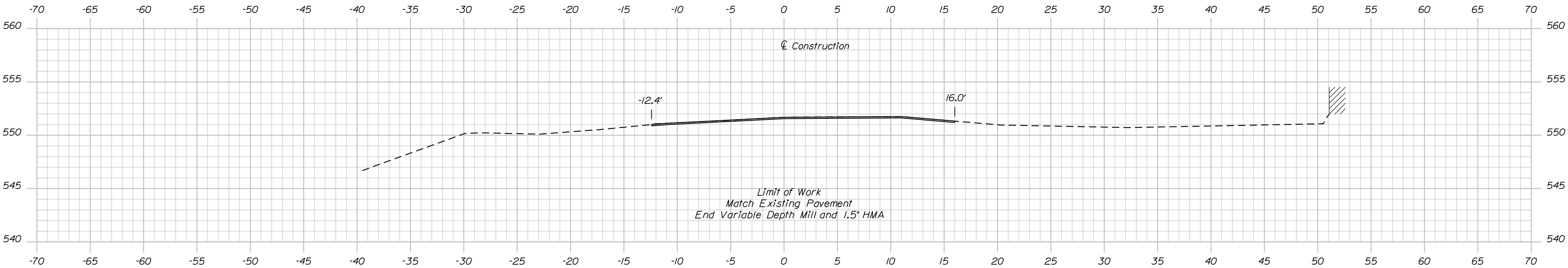
SHEET NUMBER

14

OF 21



75+25.00



75+00.00

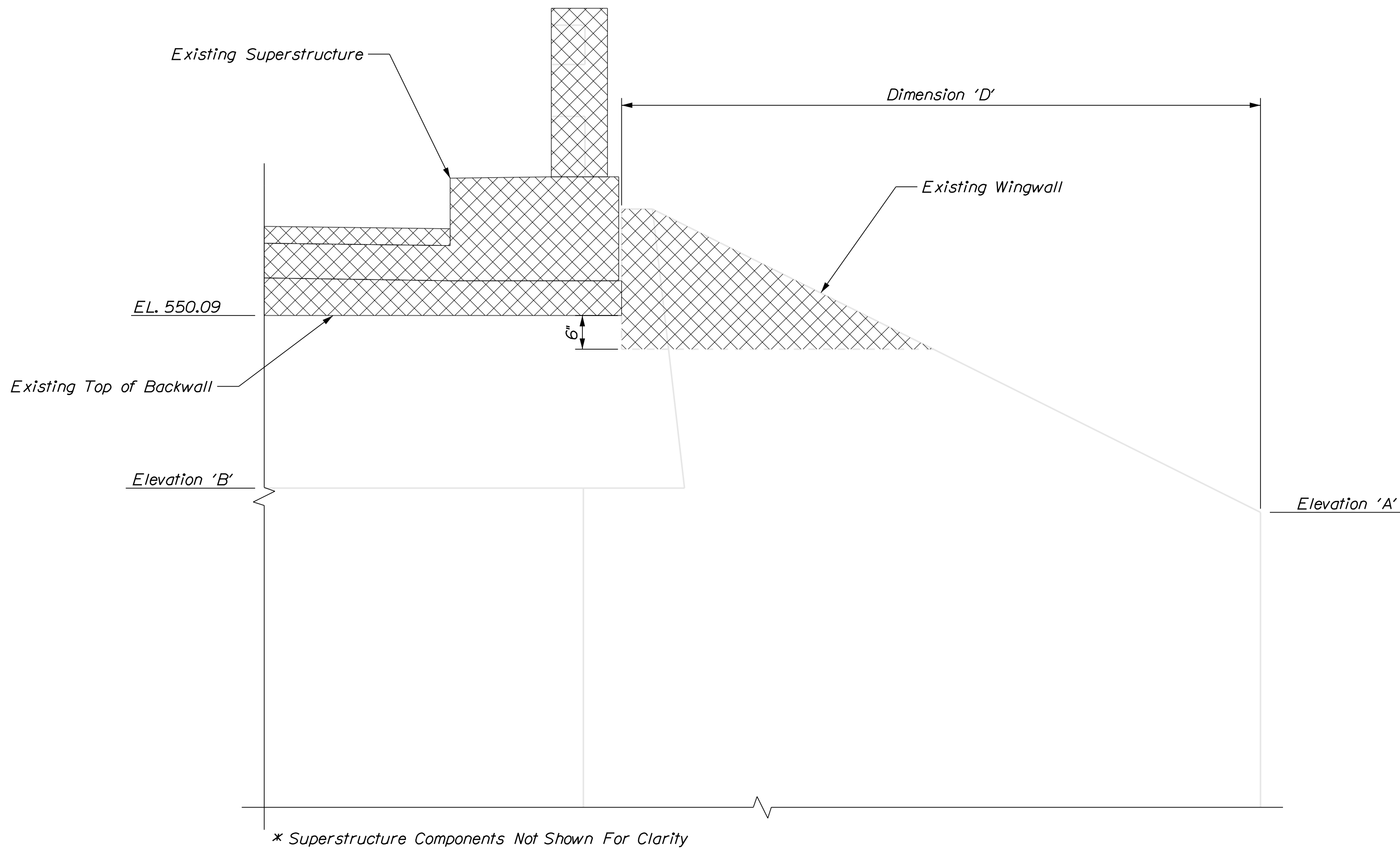


STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2237200	
BRIDGE NO. 5192	WIN 22372.00
BRIDGE PLANS	

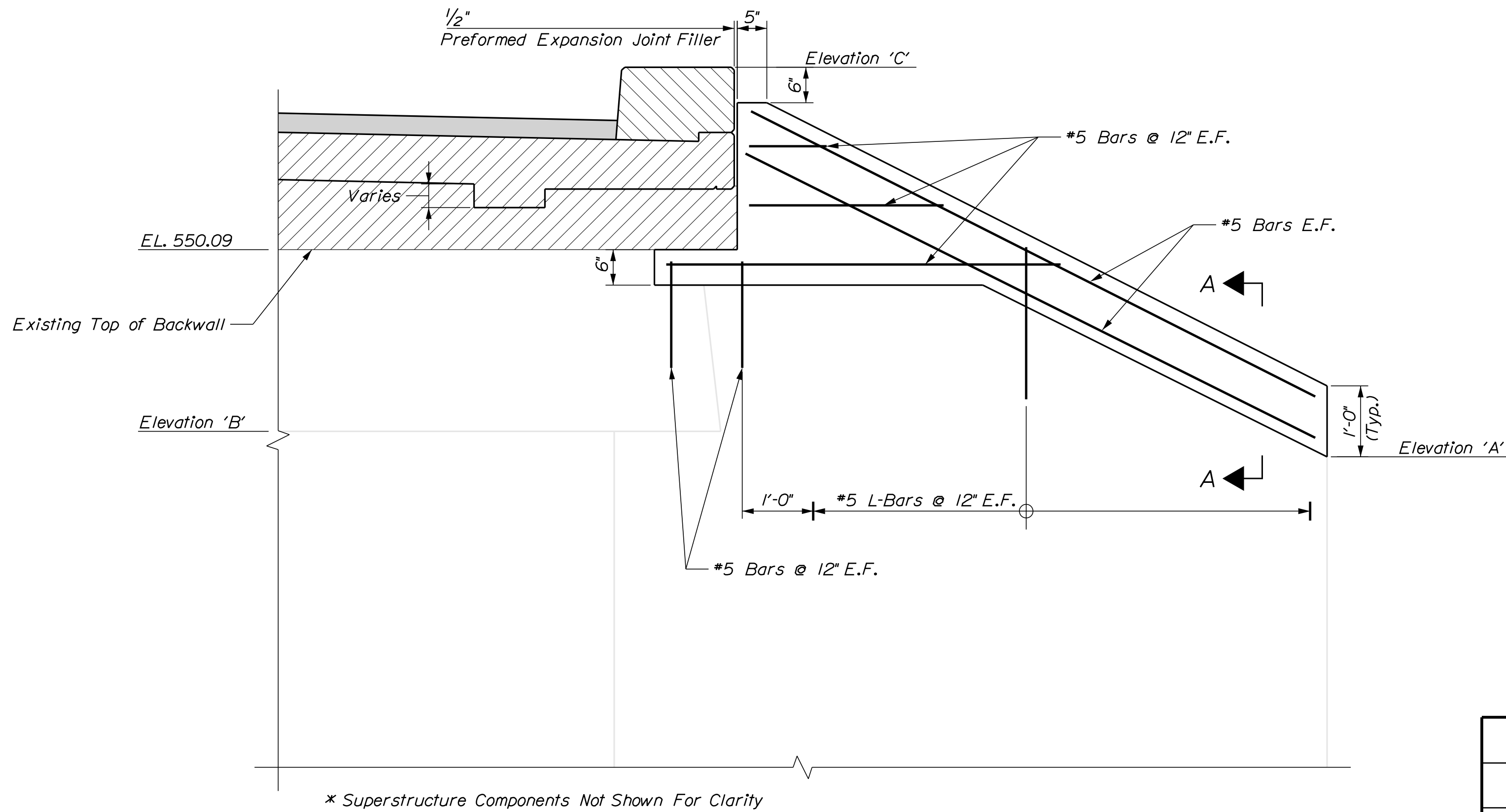
PROJ. MANAGER	JOEL KITREDD	BY	DATE
DESIGN-DETAILED	E. FARRELL	I. LINDO	4/2019
CHECKED-REVIEWED	C. SCHAK	C. SCHAK	4/2019
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WATERFORD HORRS BRIDGE	
CROOKED RIVER	
OXFORD COUNTY	
WATERFORD	
CROSS SECTIONS	

SHEET NUMBER	
15	
OF 21	



TYPICAL WINGWALL DEMOLITION ELEVATION DETAIL



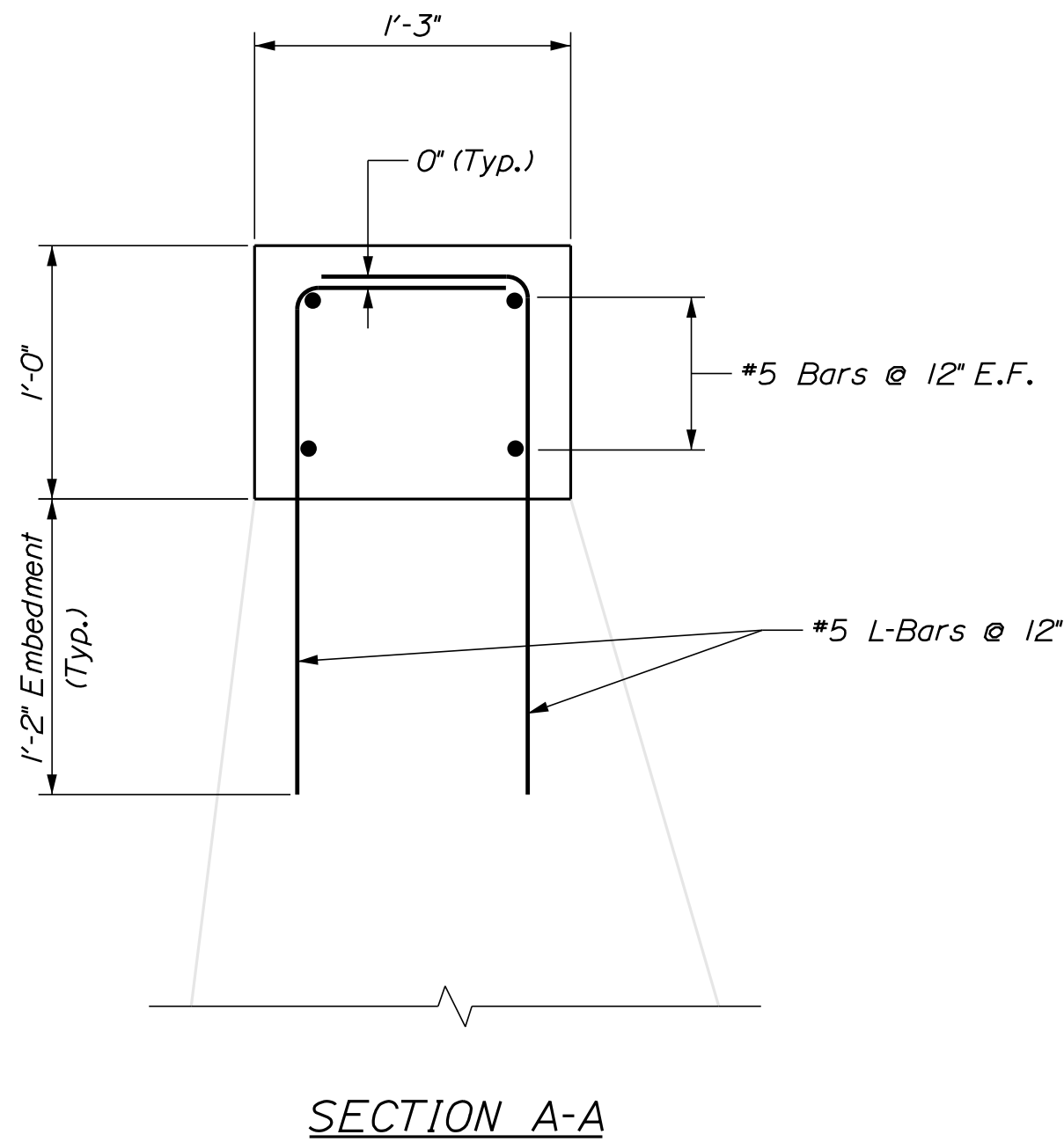
TYPICAL WINGWALL RECONSTRUCTION DETAIL

LEGEND:



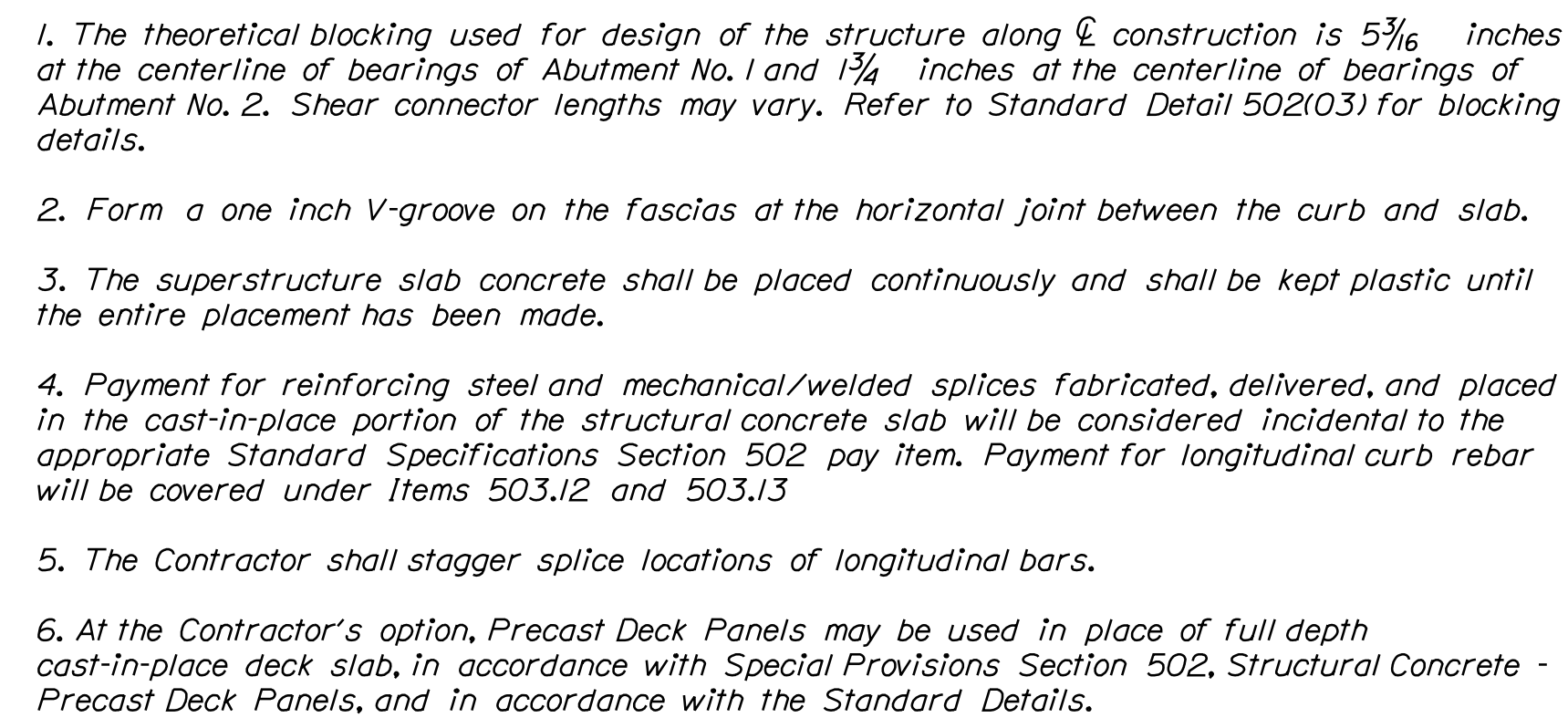
WINGWALL NOTES:

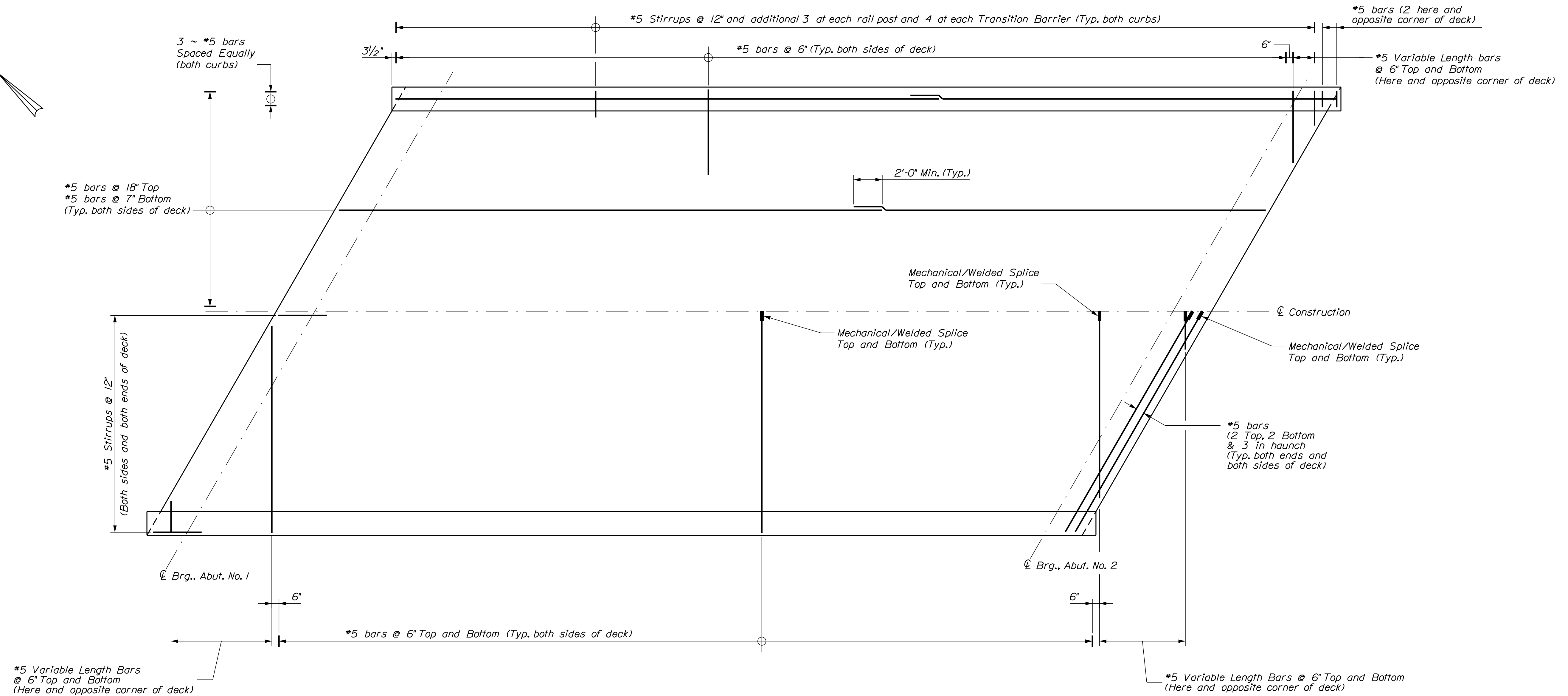
1. Reinforcing steel shall have 2 inches of cover unless otherwise noted.
2. All exposed edges of concrete shall have a 3/4" chamfer unless otherwise noted.
3. Where drilling and anchoring reinforcement is required, the anchoring material shall be chosen from the MaineDOT Qualified Products List of Grout Materials and shall be submitted to the Resident for approval.
4. Dimension 'D' corresponds to the actual length of wingwall measured along wingwall skew.

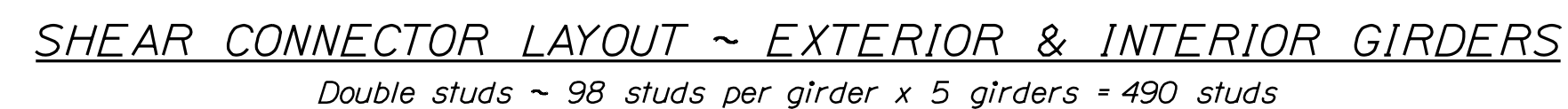
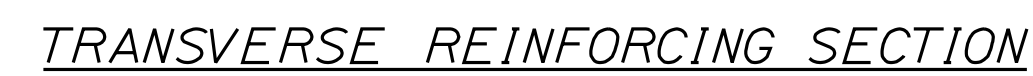


WINGWALL DATA				
LOCATION	Elevation 'A'	Elevation 'B'	Elevation 'C'	Dimension 'D'
ABUTMENT 1 LEFT	546.79	547.15	552.32	9.48'
ABUTMENT 1 RIGHT	544.79	547.15	552.37	23.31'
ABUTMENT 2 RIGHT	544.29	547.23	552.09	14.35'
ABUTMENT 2 LEFT	549.29	547.23	552.02	3.88'









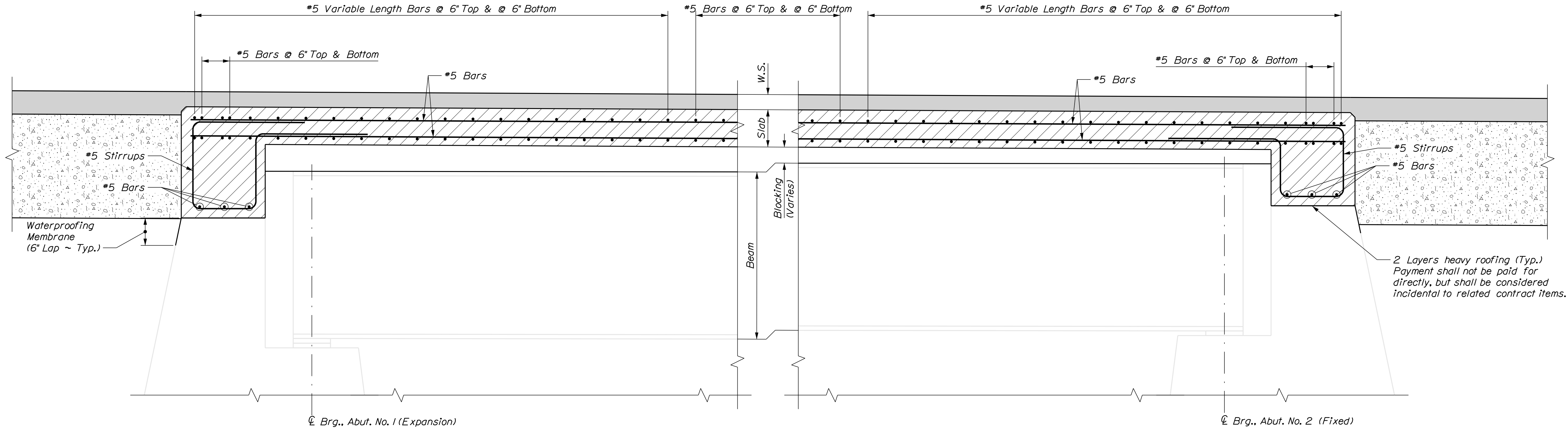
BOTTOM OF SLAB ELEVATIONS											
GIRDER	DISTANCE ALONG GIRDER										
	℄ BRG. ABUT. 1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ BRG. ABUT. 2
G1	550.63	550.60	550.57	550.54	550.51	550.48	550.45	550.42	550.39	550.36	550.33
G2	550.77	550.75	550.59	550.69	550.66	550.63	550.60	550.57	550.54	550.51	550.48
G3	550.91	550.89	550.86	550.83	550.80	550.77	550.74	550.71	550.68	550.65	550.62
G4	550.79	550.78	550.75	550.72	550.69	550.66	550.63	550.60	550.57	550.54	550.51
G5	550.68	550.66	550.64	550.62	550.59	550.56	550.53	550.50	550.47	550.44	550.41

Date:5/7/2019

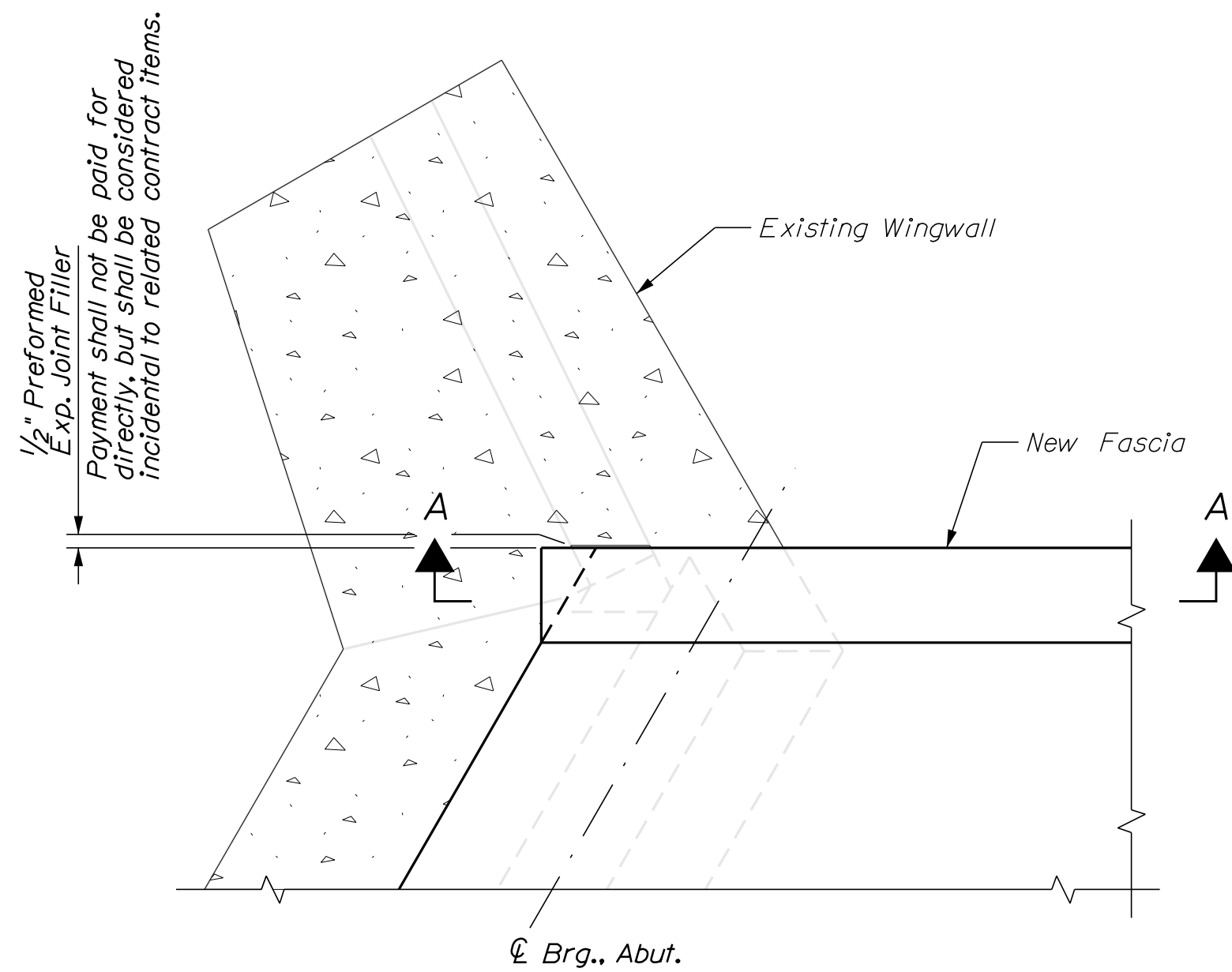
Username:

Division: BRIDGE

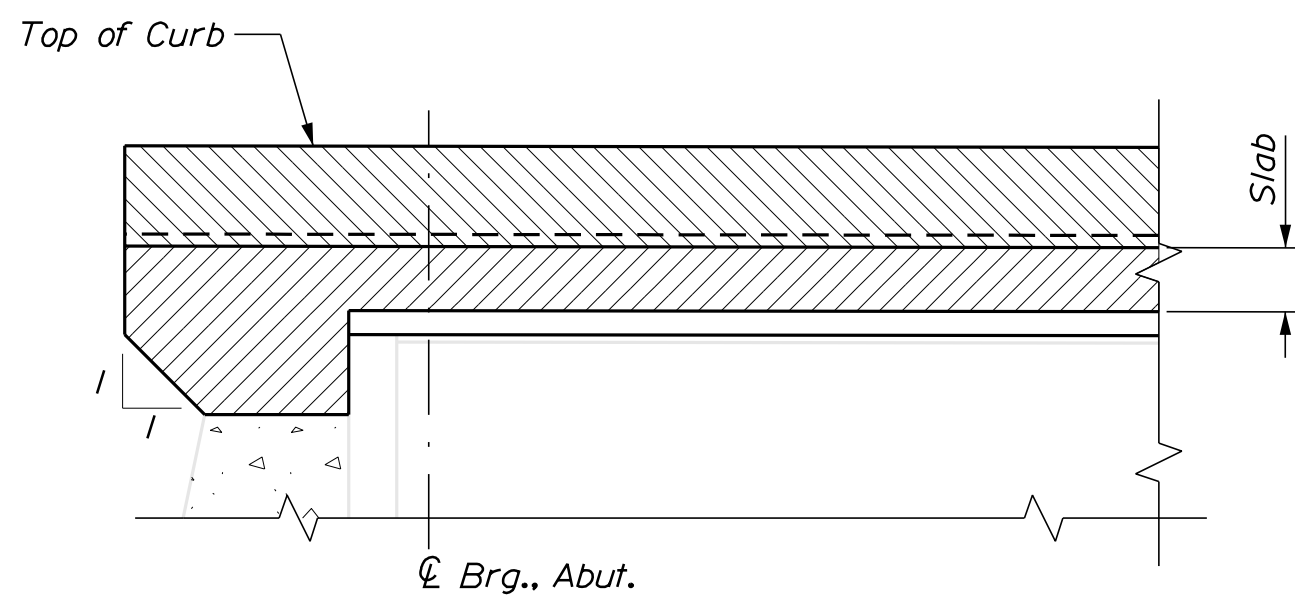
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LONGITUDINAL SECTION



PLAN AT SUPERSTRUCTURE CORNER
Typical at all corners



SECTION A-A



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
2237200		2237200	
BRIDGE NO. 5192		WIN 22372.00	
BRIDGE PLANS			
WATERFORD HORRS BRIDGE		OXFORD COUNTY	
CROOKED RIVER		SUPERSTRUCTURE DETAILS	
WATERFORD		SHEET NUMBER	
		20	
		OF 21	
PROJ. MANAGER JOEL KITREDOE		BY I. LINDO	
DESIGN-DETAILED E. FARRELL		DATE 4/7/2019	
CHECKED-REVIEWED C. SCHAK		SIGNATURE	
DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date:5/2/2019

Username: Jude.Hogan

Division: ROW

Filename: ... \00\ROW\MSTA021_RWP\PLAN1.dgn

