

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 2670
 Future (2038) AADT 3200
 DHV - % of AADT 12
 Design Hour Volume 384
 Heavy Trucks (% of AADT) 25
 Heavy Trucks (% of DHV) 19
 Directional Distribution (% of DHV) 52
 18 kip Equivalent P 2.0 637
 18 kip Equivalent P 2.5 607
 Design Speed (mph) 55

HYDROLOGIC DATA

Drainage Area 7.4 sq mi
 Design Discharge (Q50) 480.2 cfs
 Check Discharge (Q100) 562.8 cfs
 Headwater Elevation (Q1.1) 119.67 ft
 Headwater Elevation (Q25) 122.32 ft
 Headwater Elevation (Q50) 122.67 ft
 Headwater Elevation (Q100) 123.12 ft
 Discharge Velocity (Q1.1) 5.4 fps
 Discharge Velocity (Q50) 8.6 fps
 Discharge Velocity (Q100) 9.1 fps

MATERIALS

Concrete:
 Precast Class "P"
 All Other Class "A"
 Reinforcing Steel ASTM A 615/A 615M, Grade 60
 Welded Wire Reinforcement ASTM A 185/A185 M or ASTM A497/A497 M

BASIC DESIGN STRESSES

Precast Concrete $f'c = 5,000$ psi min.
 Reinforcing Steel $f_y = 60,000$ psi
 Welded Wire Reinforcing $f_y = 65,000$ psi

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CRAWFORD WASHINGTON COUNTY ROCKY STREAM BRIDGE OVER ROCKY STREAM ROUTE 9 STATE PROJECT NO. 18949.00 PROJECT LENGTH 0.028 mi. BRIDGE NO. 3620

UTILITIES

Eastern Maine Coop.

MAINTENANCE OF TRAFFIC

Maintain one lane of alternating traffic using staged construction and temporary traffic signals. Travel lane shall be a minimum of 15' wide.

<u>PROJECT LOCATION</u>	Located 2 miles East of T26ED BPP/Crawford townline on Route 9, the Airline. Lat. 44° 59' 58.23" N Long. 67° 35' 8.04" W
<u>PROGRAM AREA</u>	Highway Bridge - Minor Spans
<u>OUTLINE OF WORK</u>	Bridge Culvert Replacement: Rocky Stream Bridge #3620 in Crawford, carrying Rte 9 over Rocky Stream.

Date:10/11/2018

Username: Mark-Poulin

Division: BRIDGE

Filename: \\00\BRIDGE\MSTA\001_Title.dgn

WIN 18949.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED: <i>[Signature]</i>
DATE: 10/23/18
COMMISSIONER: <i>[Signature]</i>
CHIEF ENGINEER: <i>[Signature]</i>

STATE OF MAINE
PROFESSIONAL ENGINEER
Richard E. Myers
12670
12.6.18
0672868-1, 2018
DATE

PROJECT INFORMATION
PROGRAM: BRIDGE PROGRAM
PROJECT MANAGER: MICHAEL WIGHT
DESIGNER: BENJAMIN BARTLETT
CONSULTANT
PROJECT RESIDENT
CONTRACTOR
PROJECT COMPLETION DATE

CRAWFORD
ROCKY STREAM BRIDGE
TITLE SHEET

SHEET NUMBER
1
OF 23

Date: 10/10/2018

Username: Mark.Poulin

Division: BRIDGE

Filename: ... \002_Estimate_General-Notes.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.121	REMOVING EXISTING CONCRETE (45 CY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	1,425	SY
203.20	COMMON EXCAVATION	855	CY
203.24	COMMON BORROW	60	CY
203.25	GRANULAR BORROW	400	CY
203.33	SPECIAL FILL	100	CY
206.061	STRUCTURAL EARTH EXCAVATION DRAINAGE & MINOR STRUCTURES, BELOW GRADE	110	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	700	CY
403.2081	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	215	T
403.211	HOT MIX ASPHALT (SHIMMING)	10	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	170	T
403.2131	12.5 MM POLYMER MODIFIED HMA BASE	100	T
409.15	BITUMINOUS TACK COAT - APPLIED	171	G
461.31	TEMPORARY PAVEMENT	60	T
508.13	SHEET WATERPROOFING MEMBRANE (225 SY)	1	LS
511.07	COFFERDAM: (UPSTREAM)	1	LS
511.07	COFFERDAM: (DOWNSTREAM)	1	LS
513.22	CRUSHED STONE SLOPE PROTECTION	125	SY
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (40 SY)	1	LS
524.301	TEMPORARY STRUCTURAL SUPPORT	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE I (600 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	2	UN
534.71	PRECAST CONCRETE BOX CULVERT (215 CY)	1	LS
606.1301	31" W-BM GR, MID-WAY SPLICE-SGL FACED	516	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
610.08	PLAIN RIPRAP	230	CY
610.210	STREAM CHANNEL ROCK	140	CY
613.319	EROSION CONTROL BLANKET	150	SY
615.07	LOAM	36	CY
618.14	SEEDING METHOD NUMBER 2	6	UN
619.12	MULCH	6	UN
619.14	EROSION CONTROL MIX	71	CY
620.58	EROSION CONTROL GEOTEXTILE	315	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1,500	LF
627.77	REMOVING PAVEMENT MARKINGS	100	SF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YEL LOW	100	LF
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	50	EA
652.34	CONE	75	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	480	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
652.47	TEMPORARY PORTABLE RUMBLE STRIP	2	GP
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

- 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. 125' shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.
- Place riprap on sideslopes up to EL. 125'
- 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.
- If the existing abutments from the 1938 bridge need to be removed, then payment will be made under Item No. 202.121, Removing Existing Concrete. Abutments shall be removed to the limits necessary for construction of the box culvert.
- A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
- 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 box surfaces that are exposed and to limit lines, one foot beyond intersections of surfaces with ground.

- Temporary bracing of the existing corrugated metal pipe arch culvert may be required to ensure that once the culvert is cut to accommodate staging operations, it can continue to support all applied loads. Payment for the designing, fabrication, erecting, maintaining, and dismantling temporary bracing will be paid for under Item No. 524.301, Temporary Structural Support.
- 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 Rocky Stream Bridge, State Route 9 over Rocky Stream, Crawford, Maine, Soils Report 2018-26, August 8, 2018, 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.

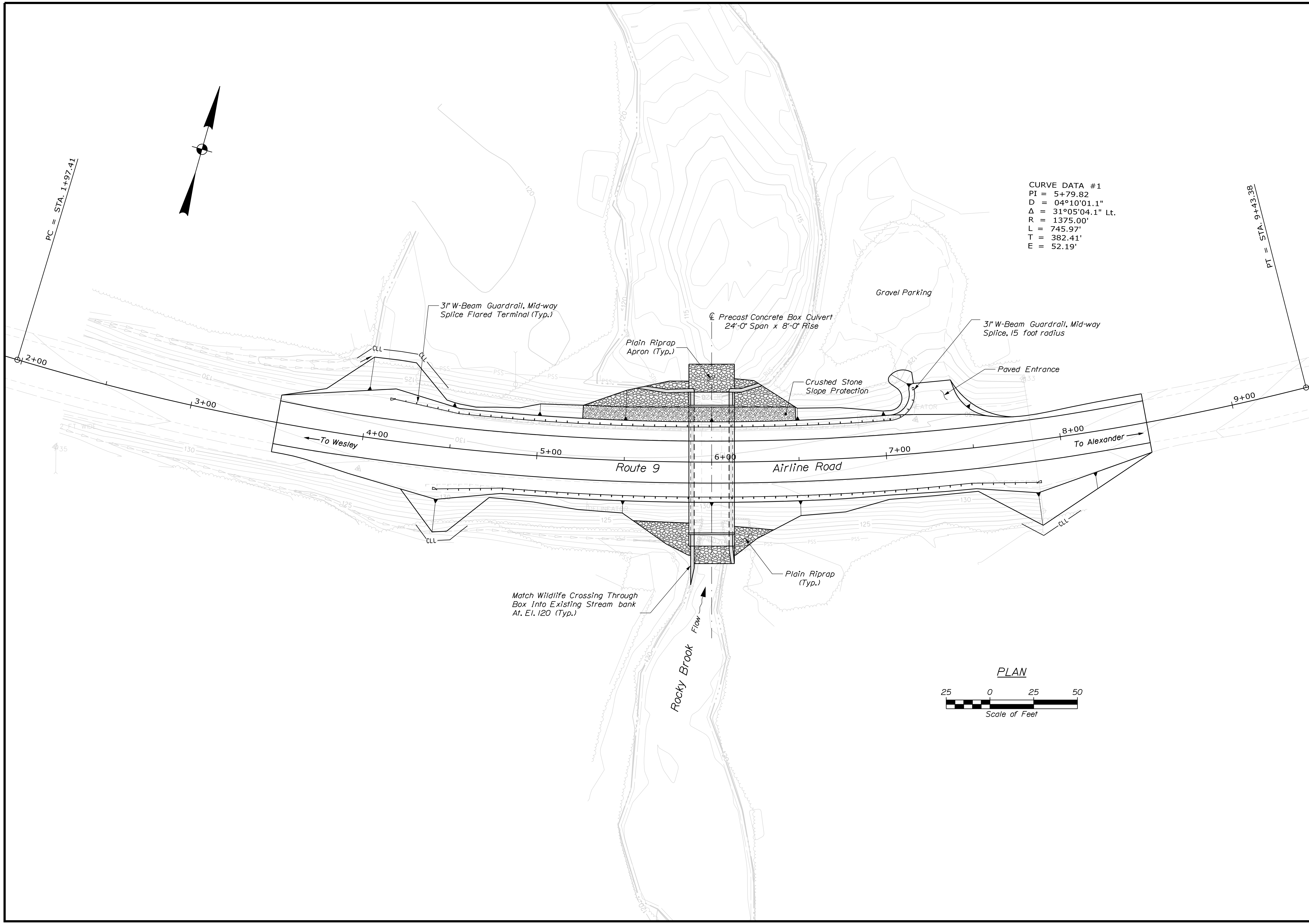
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		018949-00		WIN		BRIDGE NO. 3620		BRIDGE PLANS	
ROCKY STREAM BRIDGE		ROCKY STREAM		WASHINGTON COUNTY		ESTIMATED QUANTITIES		GENERAL NOTES		SHEET NUMBER	
CRAWFORD		CRAWFORD		CRAWFORD		CRAWFORD		CRAWFORD		2	
DESIGN-DETAILED		CHECKED-REVIEWED		DESIGNS DET AILED		REVISONS 1		REVISONS 2		REVISONS 3	
M. WIGHT		BY		DATE		M. WIGHT		BY		DATE	
B. BARTLETT		M.A.P.		MAR 2018		T. WHITE		T. WHITE		APR 2016	
R. MYERS		T. WHITE		OCT 2018		P.E. NUMBER		DATE			
B. JAVEN											
FIELD CHANGES											

Date: 10/10/2018

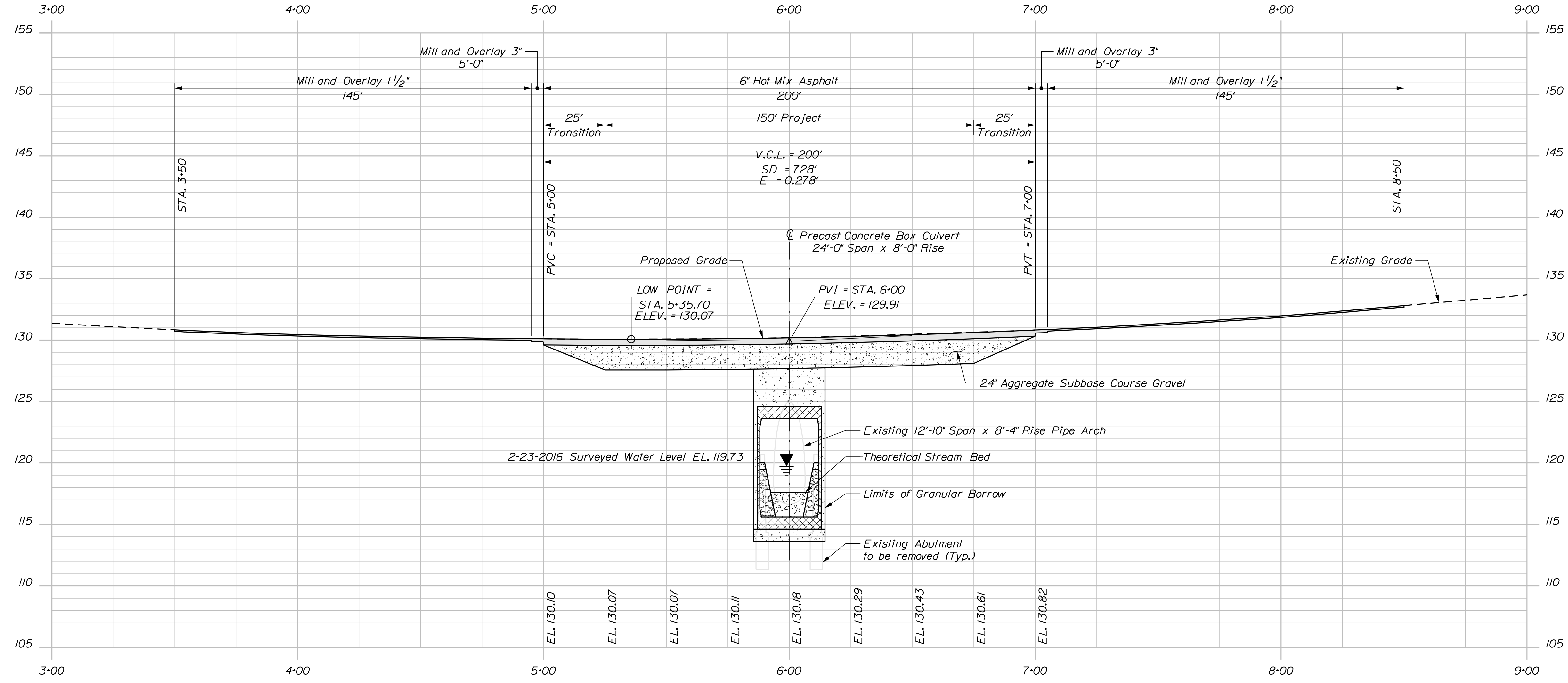
Username: Mark.Poulin

Division: BRIDGE

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		018949.00	
BRIDGE NO. 3620		WIN 18949.00	
BRIDGE PLANS			
PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN DETAILED	B. BARTLETT	M.A.P.	MAR 2018
CHECKED/REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGN DETAILED	B. SJAVERN		APR 2016
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
ROCKY STREAM BRIDGE ROCKY STREAM CRAWFORD WASHINGTON COUNTY		SIGNATURE	
GENERAL PLAN		P.E. NUMBER	
SHEET NUMBER		DATE	
3			
OF 23			



PROFILE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		018949.00	
CRAWFORD ROCKY STREAM WASHINGTON COUNTY		BRIDGE NO. 3620 WIN 18949.00	
ROCKY STREAM BRIDGE ROCKY STREAM WASHINGTON COUNTY		PROFILE	
SHEET NUMBER			
4			
OF 23			

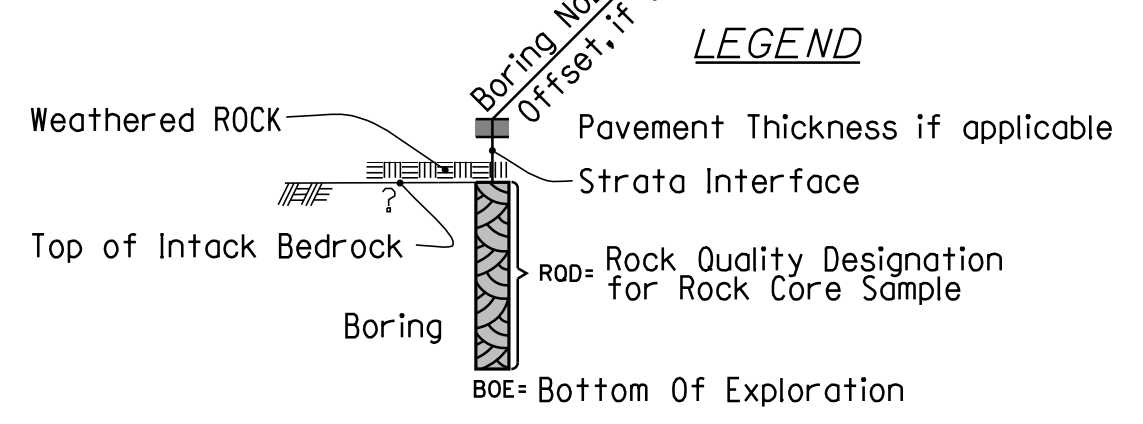
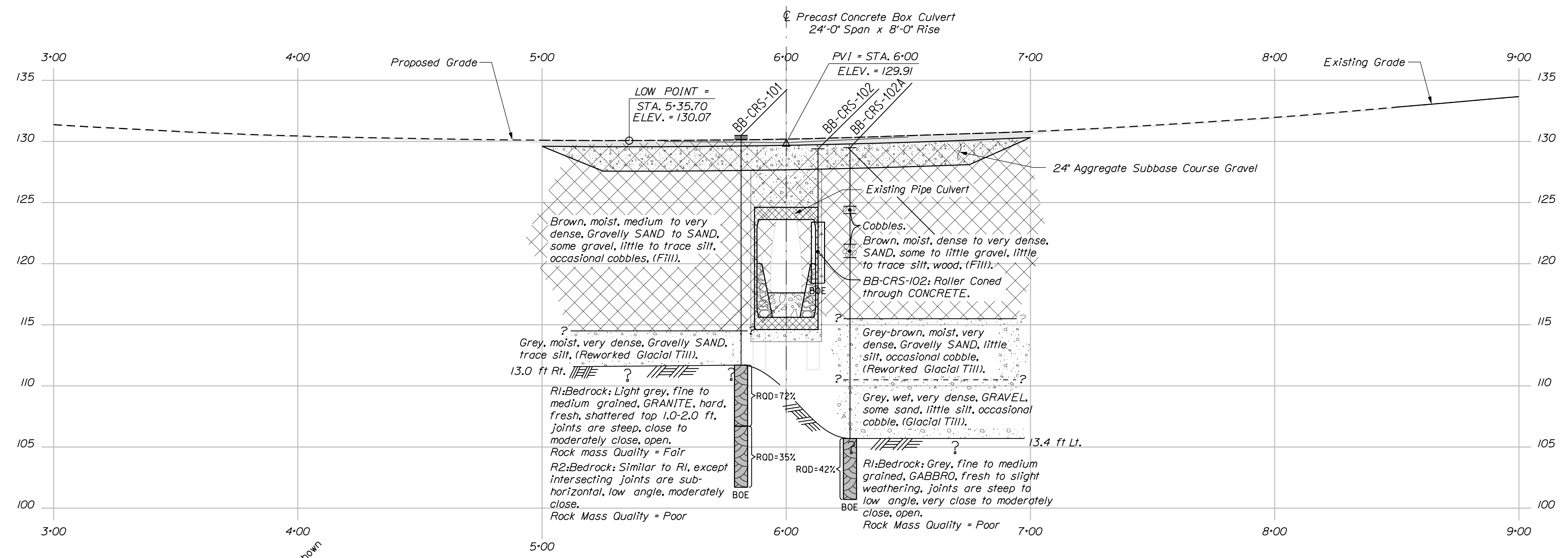
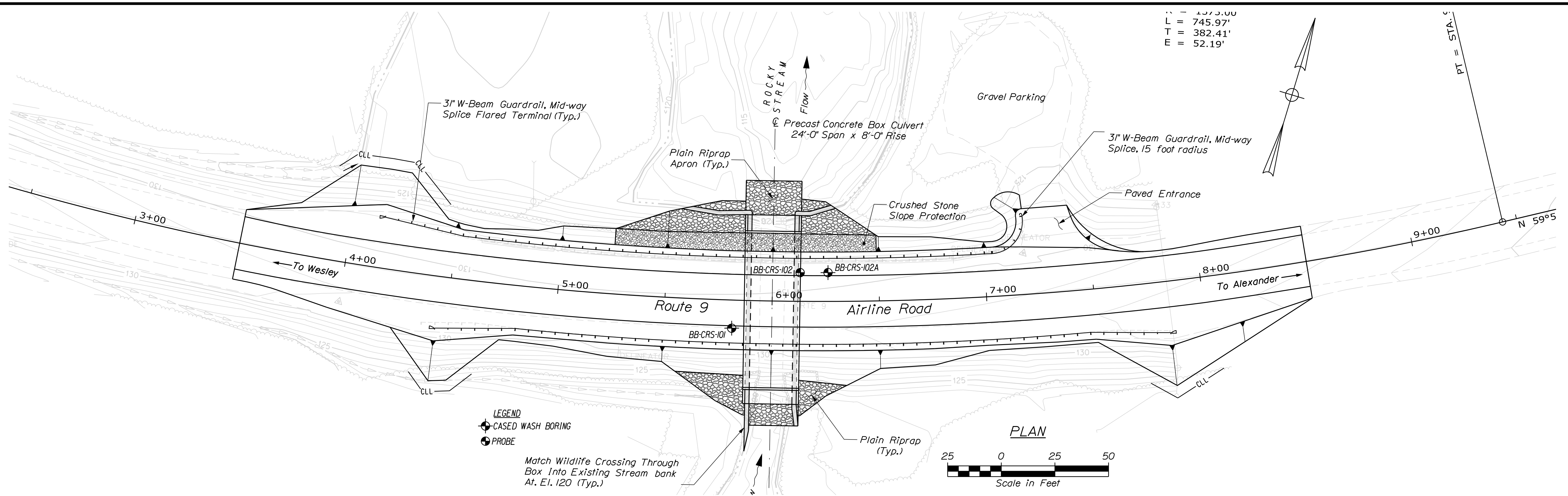
PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN DETAILED	B. BARTLETT	M.A.P.	MAR 2018
CHECKED/REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGN DETAILED	B. SJAVEN		APR 2016
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE

Date: 10/10/2018

Username: Mark.Poulin

Filename: ... \GEO\TECH\STA\005_BLP&ISP1.dgn Division: BRIDGE



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 transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		018949.00		WIN		BRIDGE NO. 3620		BRIDGE PLANS	
ROCKY STREAM BRIDGE		ROCKY STREAM		WASHINGTON COUNTY		CRAWFORD		BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE		SHEET NUMBER	
BY		DATE		SIGNATURE		P.E. NUMBER		DATE		18949.00	
DESIGN DETAILED		CHECKED/REVIEWED		DESIGN DETAILED		DESIGN DETAILED		REVISIONS 1		REVISIONS 2	
T. WHITE		MAY 2018		B. SJAVEN		MAY 2018		REVISIONS 3		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	
5		OF 23									

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Rocky Stream Bridge #3620 carries Route 9 over Rocky Stream Location: Crawford, Maine		Boring No.: BB-CRS-101 WIN: 18949.00							
Driller: MairnedOT	Elevation (ft.): 130.5	Auger ID/OD: 5" Solid Stem									
Operator: Wilder/Daggett	Datum: NAVD88	Sampler: Standard Split Spoon									
Logged By: B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: 140#/30"									
Date Start/Finish: 4/21/2016: 07:30-15:30	Drilling Method: Cased Wash Boring	Core Barrel: NO-2"									
Boring Location: 5+81.5, 13.0 ft Lt.	Casing ID/OD: NW-3"	Water Level*: None Observed									
Hammer Efficiency Factor: 0.908 Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>											
Definitions: S _u = Peak/Retained Field Vane Undrained Shear Strength (psf) T _v = Pocket Torvane Shear Strength (psf) S _u = Split Spoon Sample S _u = Solid Stem Auger S _u = Lab Vane Undrained Shear Strength (psf) W _c = Water Content, percent MD = Unsuccessful Split Spoon Sample Attempt HSA = Hollow Stem Auger Q _u = Unconfined Compressive Strength (ksf) LL = Liquid Limit U = Thin Wall Tube Sample RC = Roller Cone N _{uncorr} = Raw Field SPT N-value PL = Plastic Limit MU = Unsuccessful Thin Wall Tube Sample Attempt W _h = Weight of 140lb. Hammer Hammer Efficiency Factor = Rig Specific Annual Calibration W _h = Plasticity Index V = Field Vane Shear Test PP = Pocket Penetrometer W _h = Weight of Rods or Casing N _g = SPT Uncorrected Corrected for Hammer Efficiency G = Grain Size Analysis MW = Unsuccessful Field Vane Shear Test Attempt W _h = Weight of One Person N _g = Hammer Efficiency Factor/60%Uncorrected C = Consolidation Test											
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows 1/6 in. Shear Depth (psf) GR (RD) (%)	N-uncorrected	Neg	Casing	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ASHTO and Unified Class
0								130.2		4" HMA.	-0.3
10	24/16	1.50 - 3.50	6/15/22/22	37	56					Brown, moist, very dense, Gravelly, fine to coarse SAND, little silt. (F111).	
5	20	24/15	5.00 - 7.00	8/8/8/8	16	24				Brown, moist, medium dense, fine to coarse SAND, some gravel, trace silt. (F111).	G#303575 A-1-b, SW WC=33.2%
10	30	24/10	10.00 - 12.00	4/5/4/4	9	14				Brown, moist, medium dense, Gravelly, fine to coarse SAND, trace silt, occasional cobbles. (F111).	
15	40	24/12	15.00 - 17.00	14/9/30/30	39	59					
	R1	60/60	18.80 - 23.80	ROD = 72%				114.5		Grey, moist, very dense, Gravelly, fine to coarse SAND, trace silt. (Reworked Glacial Till). Roller Coned ahead to 18.8 ft bgs.	
20								111.7		Top of Bedrock at Elev. 111.7 ft. R1: Bedrock: Light Grey, fine to medium grained, muscovite-biotite GRANITE, hard, fresh, shattered zone in top 1 to 2'-ft., joints are steep, close to moderately close, open. [Indian Lake Granite] Rock Mass Quality = Fair. R1: Core Times (min:sec) 18.8-19.8 ft (5:30) 19.8-20.8 ft (5:00) 20.8-21.8 ft (5:00) 21.8-22.8 ft (5:05) 22.8-23.8 ft (5:10) 100% Recovery. R2: Bedrock: Similar to R1 except intersecting joints are low angle, subhorizontal, moderately close. Rock Mass Quality = Poor. R2: Core Times (min:sec) 23.8-24.8 ft (5:00) 24.8-25.8 ft (5:00) 25.8-26.8 ft (5:05) 26.8-27.8 ft (4:10) 27.8-28.8 ft (4:15) 100% Recovery.	
25								101.7		Bottom of Exploration at 28.8 feet below ground surface.	
Stratification lines represent approximate boundaries between soil types transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.											

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Rocky Stream Bridge #3620 carries Route 9 over Rocky Stream Location: Crawford, Maine		Boring No.: BB-CRS-102 WIN: 18949.00							
Driller: MairnedOT	Elevation (ft.): 129.4	Auger ID/OD: 5" Dia.									
Operator: Wilder/Daggett	Datum: NAVD88	Sampler: Standard Split Spoon									
Logged By: B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: 140#/30"									
Date Start/Finish: 4/21/2016: 07:30-15:30	Drilling Method: Solid Stem/Roller Cone	Core Barrel: N/A									
Boring Location: 6+13, 13.3 ft Lt.	Casing ID/OD: N/A	Water Level*: None Observed									
Hammer Efficiency Factor: 0.908 Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>											
Definitions: S _u = Peak/Retained Field Vane Undrained Shear Strength (psf) T _v = Pocket Torvane Shear Strength (psf) S _u = Split Spoon Sample S _u = Solid Stem Auger S _u = Lab Vane Undrained Shear Strength (psf) W _c = Water Content, percent MD = Unsuccessful Split Spoon Sample Attempt HSA = Hollow Stem Auger Q _u = Unconfined Compressive Strength (ksf) LL = Liquid Limit U = Thin Wall Tube Sample RC = Roller Cone N _{uncorr} = Raw Field SPT N-value PL = Plastic Limit MU = Unsuccessful Thin Wall Tube Sample Attempt W _h = Weight of 140lb. Hammer Hammer Efficiency Factor = Rig Specific Annual Calibration W _h = Plasticity Index V = Field Vane Shear Test PP = Pocket Penetrometer W _h = Weight of Rods or Casing N _g = SPT Uncorrected Corrected for Hammer Efficiency G = Grain Size Analysis MW = Unsuccessful Field Vane Shear Test Attempt W _h = Weight of One Person N _g = Hammer Efficiency Factor/60%Uncorrected C = Consolidation Test											
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows 1/6 in. Shear Depth (psf) GR (RD) (%)	N-uncorrected	Neg	Casing	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ASHTO and Unified Class
0								129.1		4" HMA.	-0.3
5	10	7.2/7.2	5.00 - 5.60	20/30(1.2")	---		RC	123.8		Brown, damp, very dense, fine to coarse SAND, some gravel, trace silt, occasional cobbles. (F111). CONCRETE. Roller Coned ahead from 5.6-11.0 ft bgs.	
10								118.4		Bottom of Exploration at 11.0 feet below ground surface. Moved to BB-CRS-102A.	
Stratification lines represent approximate boundaries between soil types transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.											

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Rocky Stream Bridge #3620 carries Route 9 over Rocky Stream Location: Crawford, Maine		Boring No.: BB-CRS-102A WIN: 18949.00							
Driller: MairnedOT	Elevation (ft.): 129.5	Auger ID/OD: 5" Solid Stem									
Operator: Wilder/Daggett	Datum: NAVD88	Sampler: Standard Split Spoon									
Logged By: B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: 140#/30"									
Date Start/Finish: 4/21/2016: 07:30-15:30	Drilling Method: Cased Wash Boring	Core Barrel: NO-2"									
Boring Location: 6+26.1, 13.4 ft Lt.	Casing ID/OD: NW-3"	Water Level*: None Observed									
Hammer Efficiency Factor: 0.908 Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>											
Definitions: S _u = Peak/Retained Field Vane Undrained Shear Strength (psf) T _v = Pocket Torvane Shear Strength (psf) S _u = Split Spoon Sample S _u = Solid Stem Auger S _u = Lab Vane Undrained Shear Strength (psf) W _c = Water Content, percent MD = Unsuccessful Split Spoon Sample Attempt HSA = Hollow Stem Auger Q _u = Unconfined Compressive Strength (ksf) LL = Liquid Limit U = Thin Wall Tube Sample RC = Roller Cone N _{uncorr} = Raw Field SPT N-value PL = Plastic Limit MU = Unsuccessful Thin Wall Tube Sample Attempt W _h = Weight of 140lb. Hammer Hammer Efficiency Factor = Rig Specific Annual Calibration W _h = Plasticity Index V = Field Vane Shear Test PP = Pocket Penetrometer W _h = Weight of Rods or Casing N _g = SPT Uncorrected Corrected for Hammer Efficiency G = Grain Size Analysis MW = Unsuccessful Field Vane Shear Test Attempt W _h = Weight of One Person N _g = Hammer Efficiency Factor/60%Uncorrected C = Consolidation Test											
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows 1/6 in. Shear Depth (psf) GR (RD) (%)	N-uncorrected	Neg	Casing	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ASHTO and Unified Class
0								129.2		4" HMA.	-0.3
5										Cobble from 4.8-5.4 ft bgs.	
10										Cobble from 7.9-9.0 ft bgs.	
10	10	24/14	10.00 - 12.00	8/9/13/7	22	33		6		Brown, moist, dense, fine to coarse SAND, little silt, wood. (F111).	G#303576 A-1-b, SW WC=11.1%
15	20	24/16	15.00 - 17.00	8/14/20/20	34	51		11		Grey-brown, moist, very dense, Gravelly, fine to coarse SAND, little silt, occasional cobbles. (Reworked Glacial Till).	
20	30	24/15	20.00 - 22.00	18/22/23/23	45	68		6		Grey, wet, very dense, GRAVEL, some sand, little silt, occasional cobbles. (Glacial Till).	G#303577 A-1-a, GW-CM WC=1.6%
25								105.8		990 blows for 0.7 ft. Roller Coned ahead to 23.7 ft bgs.	
25								101.7		Top of Bedrock at Elev. 105.8 ft. R1: Bedrock: Grey, fine to medium grained, GABBRO, fresh to slight weathering, joints are steep to low angle, very close to moderately close, open. [Pocomoishine Gabbro-Diorite Complex] Rock Mass Quality = Poor. R1: Core Times (min:sec) 23.8-24.8 ft (4:15) 24.8-25.8 ft (4:20) 25.8-26.8 ft (4:00) 26.8-27.8 ft (4:10) 27.8-28.8 ft (4:00) 100% Recovery.	
30										Bottom of Exploration at 28.8 feet below ground surface.	
Stratification lines represent approximate boundaries between soil types transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.											

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949-00
WIN 18949.00
BRIDGE NO. 3620 BRIDGE PLANS

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
BORING LOGS

PROJ. MANAGER	BY	DATE
CHECKED-REVIEWED	T. WHITE	MAY 2018
DESIGN-DETAILED	B. SJAVEN	
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

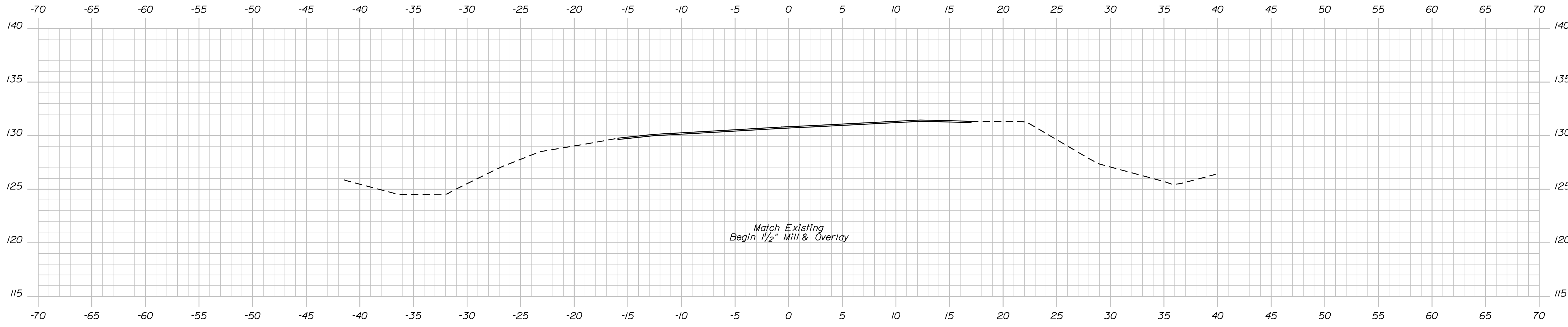
SHEET NUMBER
6
OF 23

Date: 10/10/2018

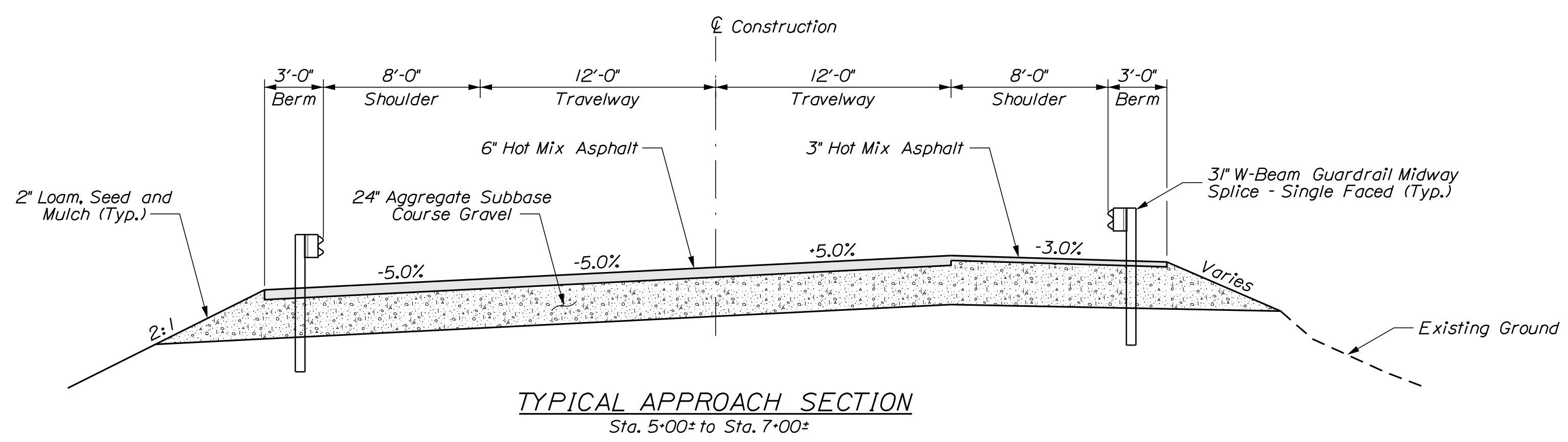
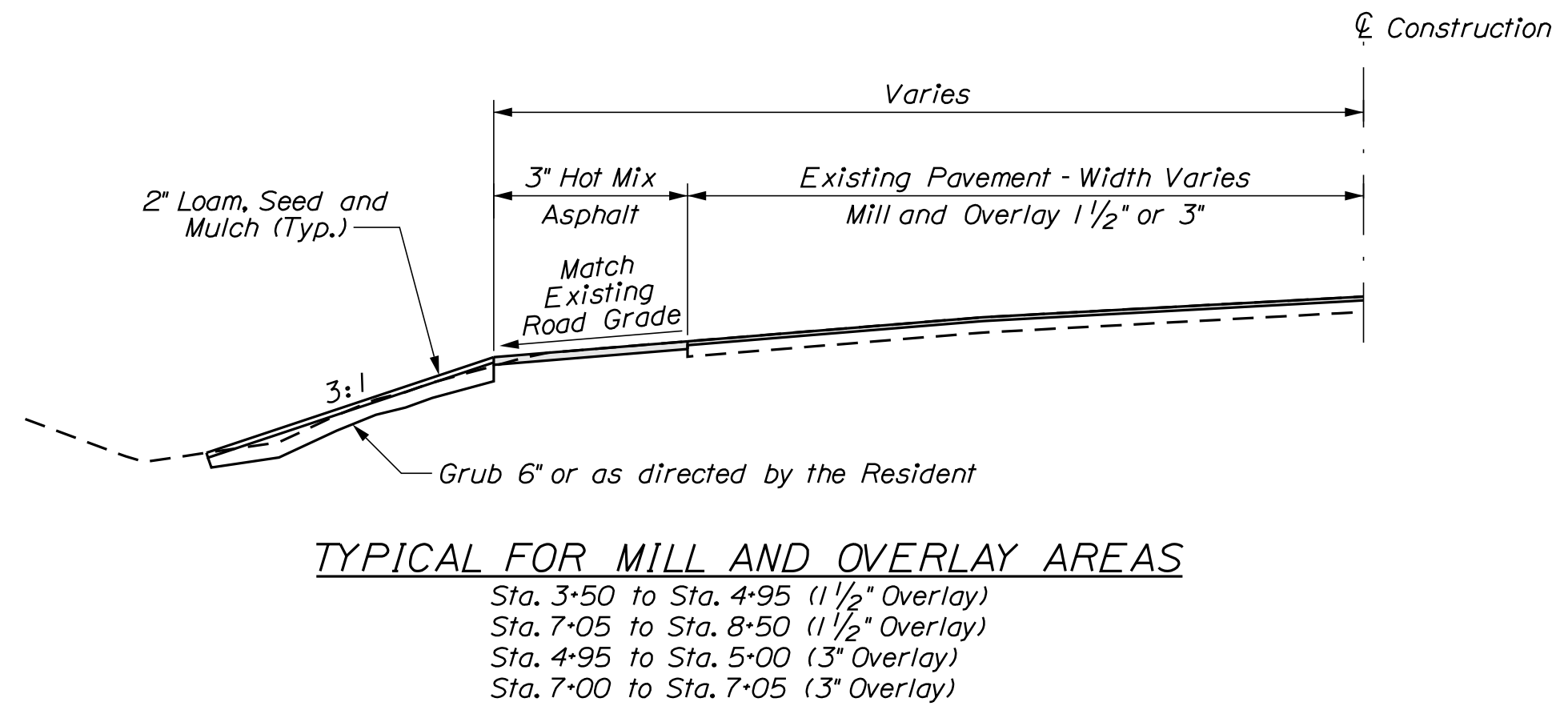
Username: Mark.Poulin

Division: BRIDGE

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3+50.00



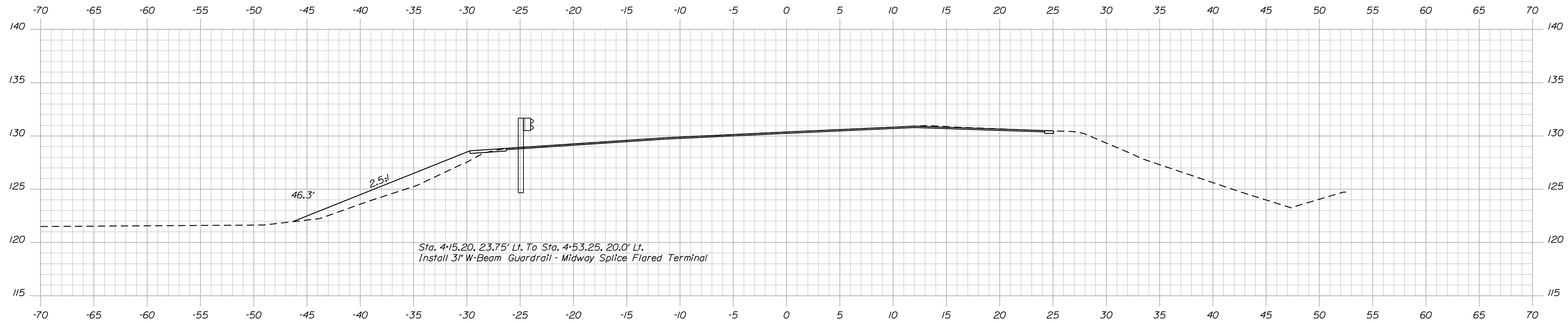
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CRAWFORD ROCKY STREAM WASHINGTON COUNTY		BRIDGE NO. 3620	
CROSS SECTIONS		WIN 18949.00	
SHEET NUMBER		BRIDGE PLANS	
7		DATE	
OF 23		P.E. NUMBER	
		SIGNATURE	
		DATE	
		M.A.P.	
		DATE	
		BY	
		DATE	
		M. WIGHT	
		DATE	
		DESIGN DETAILED	
		DATE	
		CHECKED/REVIEWED	
		DATE	
		DESIGN DETAILED	
		DATE	
		DESIGN DETAILED	
		DATE	
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		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	

Date: 10/10/2018

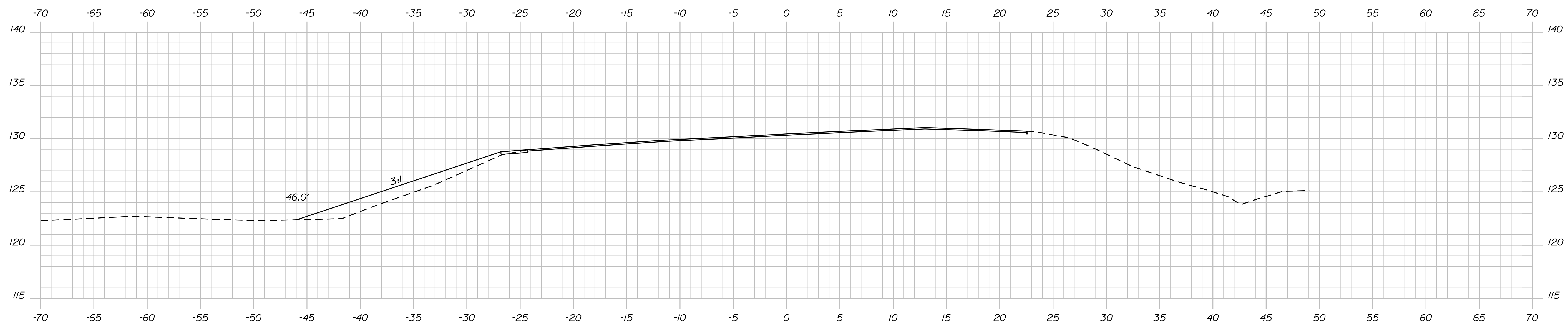
Username: Mark.Poulin

Division: BRIDGE

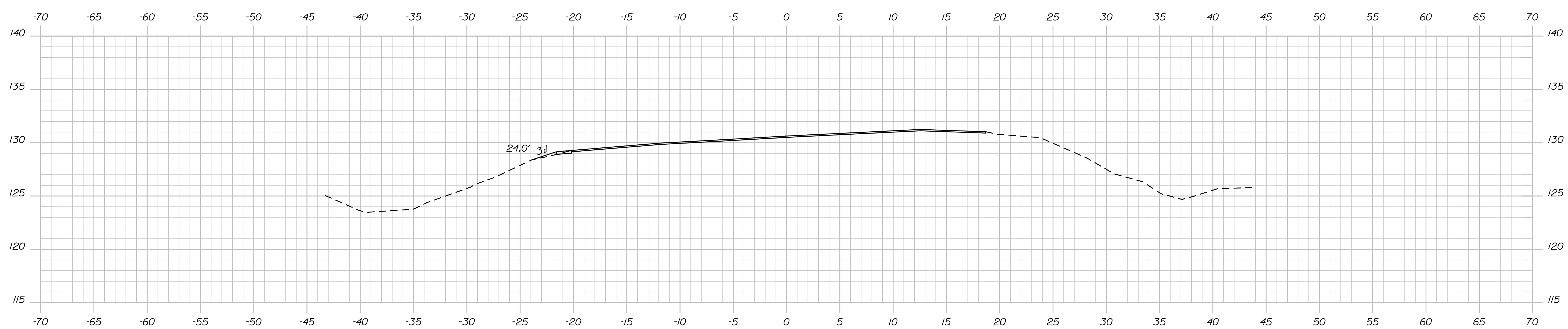
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4+15.20



4+00.00



3+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

DESIGN DETAILED	BY	DATE
CHECKED/REVIEWED	M. WIGHT	MAR 2018
DESIGNS DETAILED	B. BARTLETT	OCT 2018
REVISIONS 1	R. MYERS	APR 2016
REVISIONS 2	T. WHITE	
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

SHEET NUMBER
8
OF 23

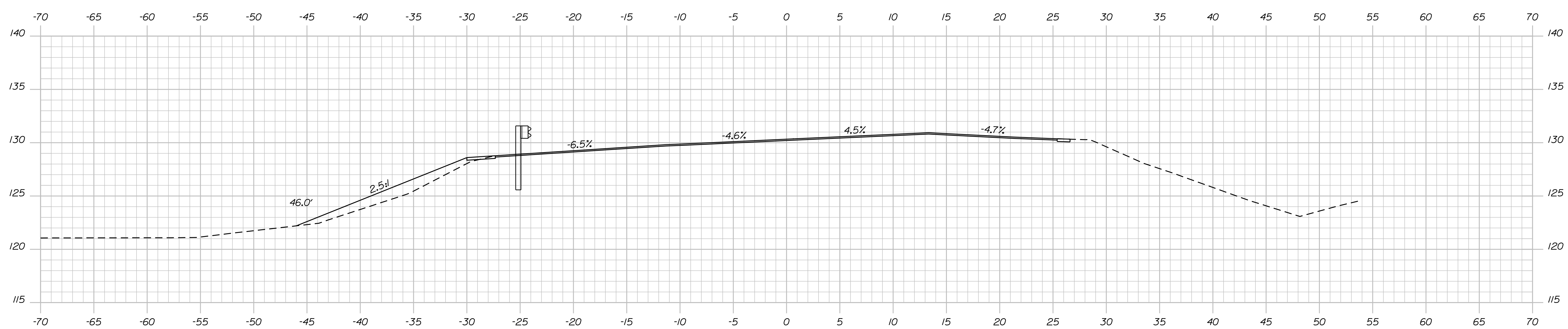
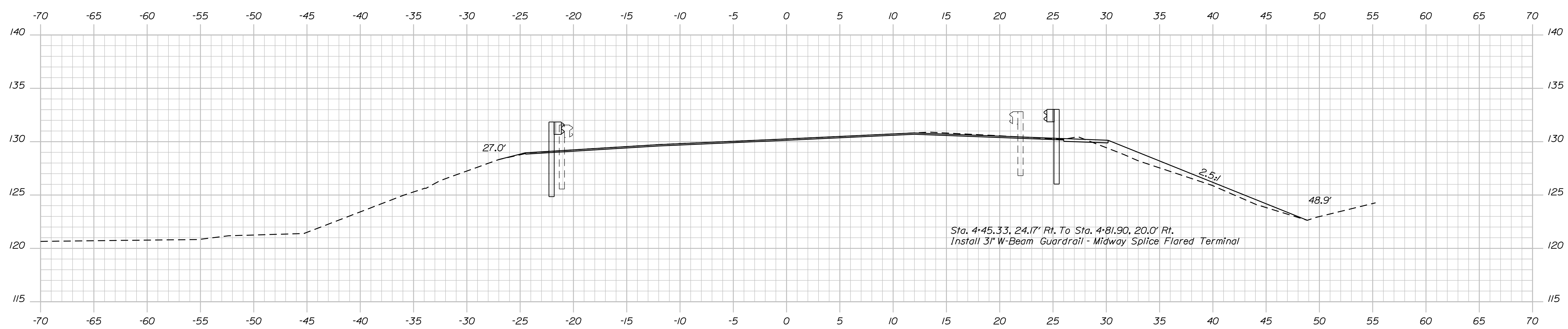
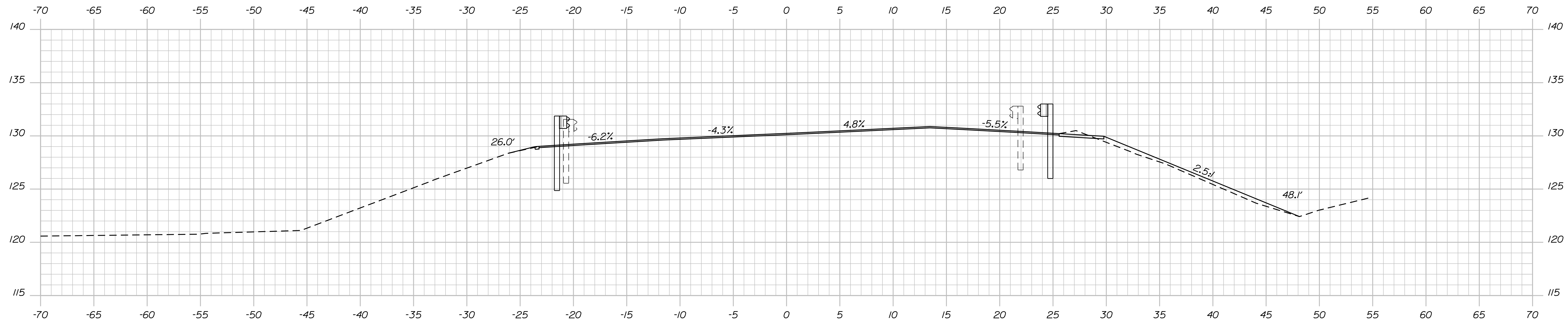
Sta. 3+75.00 to Sta. 4+15.20

Date: 10/10/2018

Username: Mark.Poulin

Division: BRIDGE

Filename: ... \MSTAN009_XSECT_4+25_003.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

DESIGN DETAILED	DATE	BY	M. WIGHT	PROJ. MANAGER
CHECKED-REVIEWED	MAR 2018	B. BARTLETT	B. BARTLETT	DESIGN DETAILED
DESIGNS DETAILED	OCT 2018	R. MYERS	R. MYERS	REVISIONS 1
DESIGNS DETAILED	APR 2016	T. WHITE	T. WHITE	REVISIONS 2
REVISIONS 1				REVISIONS 3
REVISIONS 2				REVISIONS 4
REVISIONS 3				FIELD CHANGES
REVISIONS 4				
SIGNATURE				P.E. NUMBER
				DATE

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

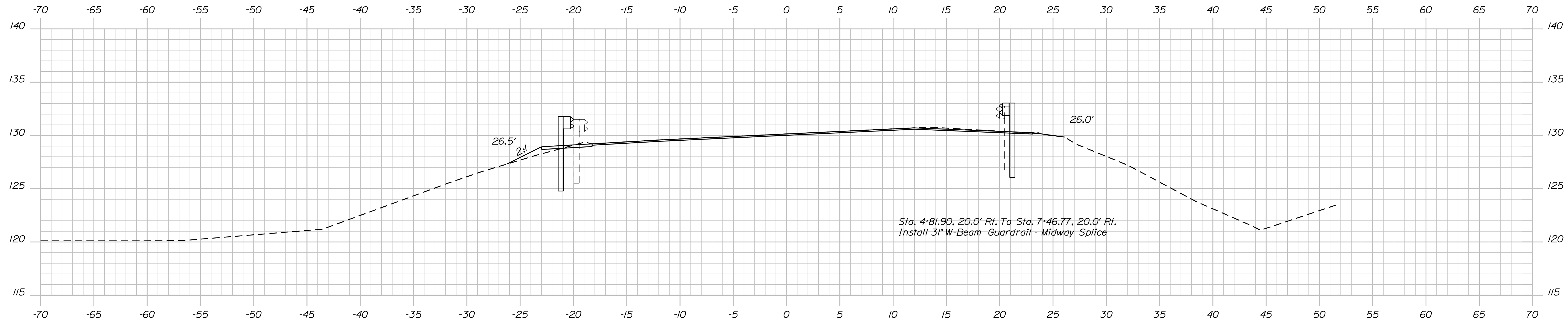
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OF 23

Date: 10/10/2018

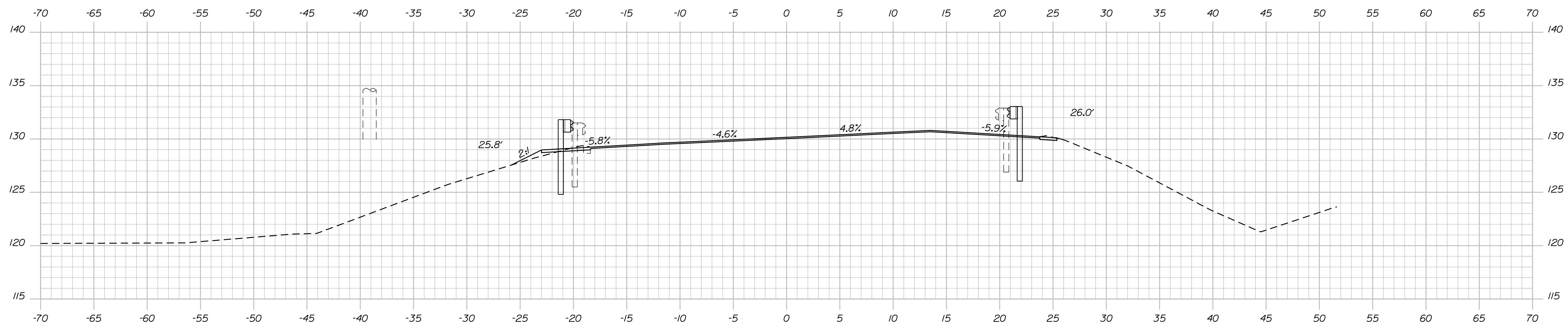
Username: Mark.Poulin

Division: BRIDGE

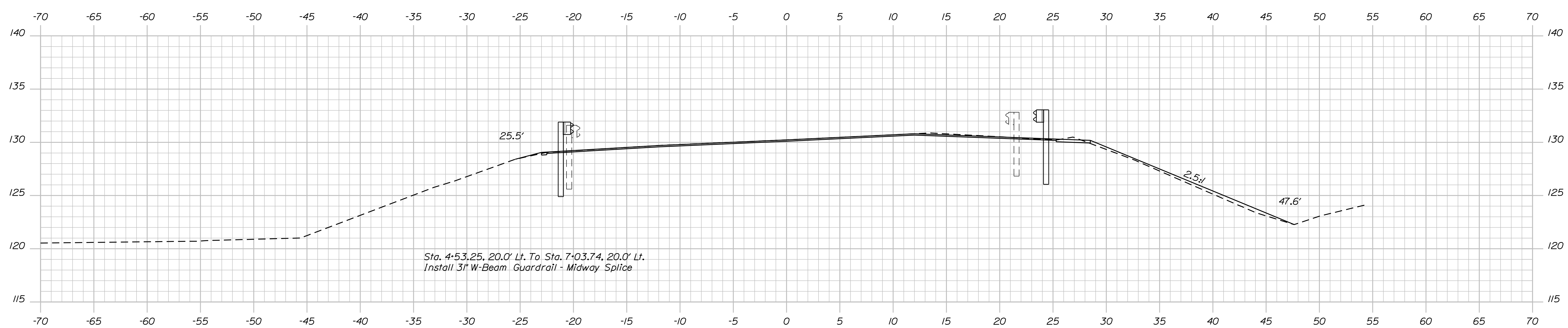
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4+81.90



4+75.00



4+53.25

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN DETAILED	B. BARTLETT	M.R.P.	MAR 2018
CHECKED/REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGN DETAILED	B. LAJAVEN		APR 2016
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
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FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

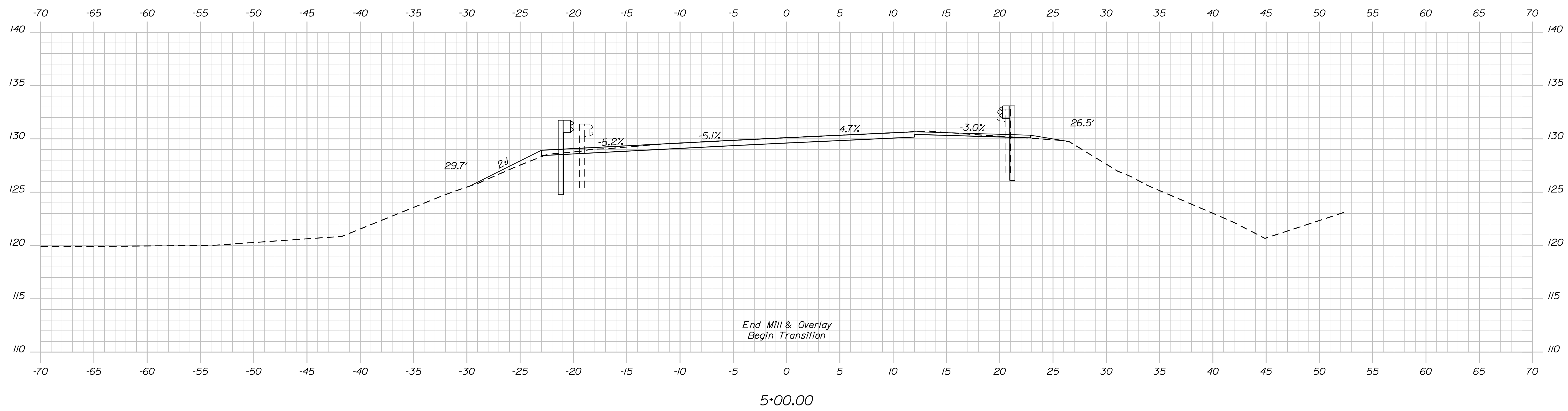
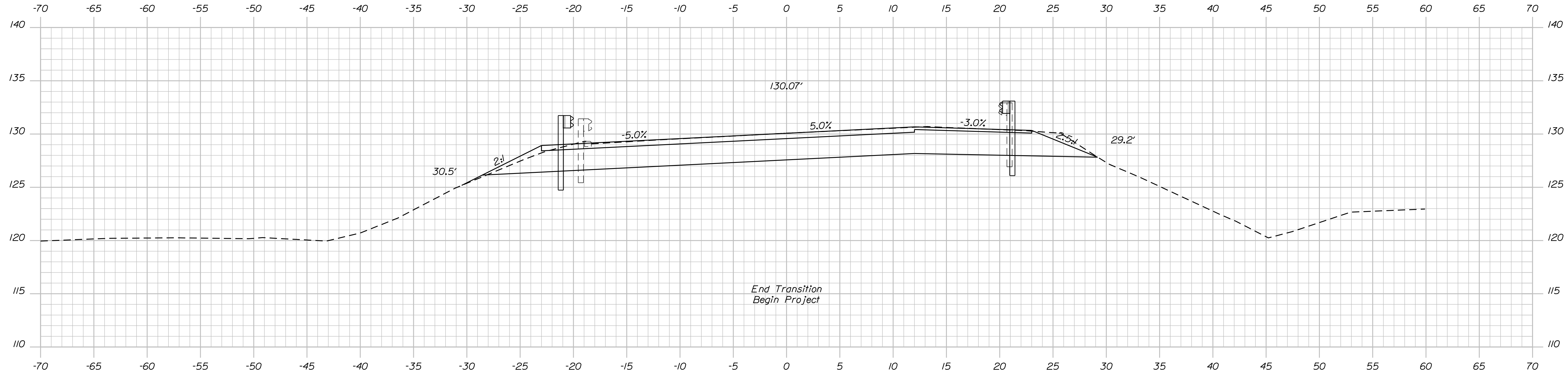
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OF 23

Date: 10/10/2018

Username: Mark.Poulin

Division: BRIDGE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

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

BY
M. WIGHT
B. BARTLETT
R. MYERS
T. WHITE

DATE
MAR 2018
OCT 2018
APR 2016

SIGNATURE
P.E. NUMBER
DATE

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

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

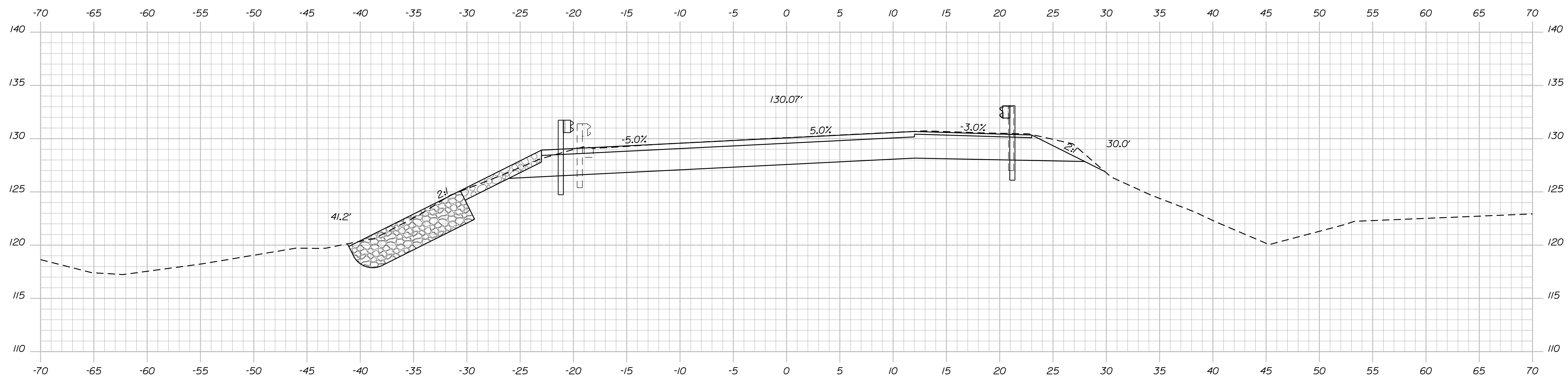
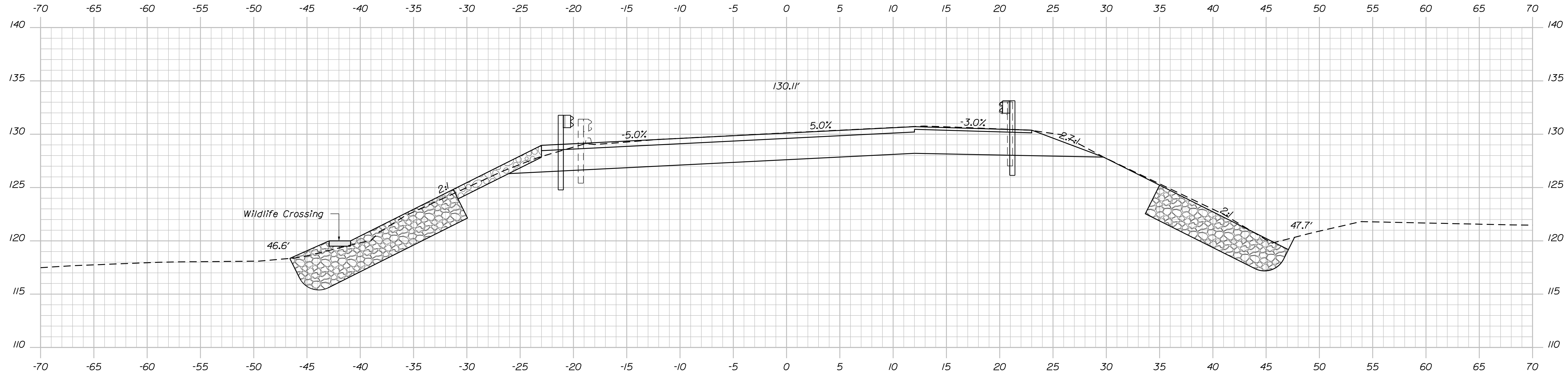
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OF 23

Date: 10/10/2018

Username: Mark.Poulin

Division: BRIDGE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

DESIGN	DATE	SIGNATURE
CHECKED	MAR 2018	
REVIEWED	OCT 2018	
DESIGNED	APR 2016	
DESIGNED		
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	M. WIGHT	BY	T. WHITE
DESIGN DETAILED	B. BARTLETT	CHECKED	R. MYERS
DESIGNED	B. S. JAVEN	REVIEWED	
REVISIONS 1		DESIGNED	
REVISIONS 2		REVIEWED	
REVISIONS 3		DESIGNED	
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FIELD CHANGES		DESIGNED	

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

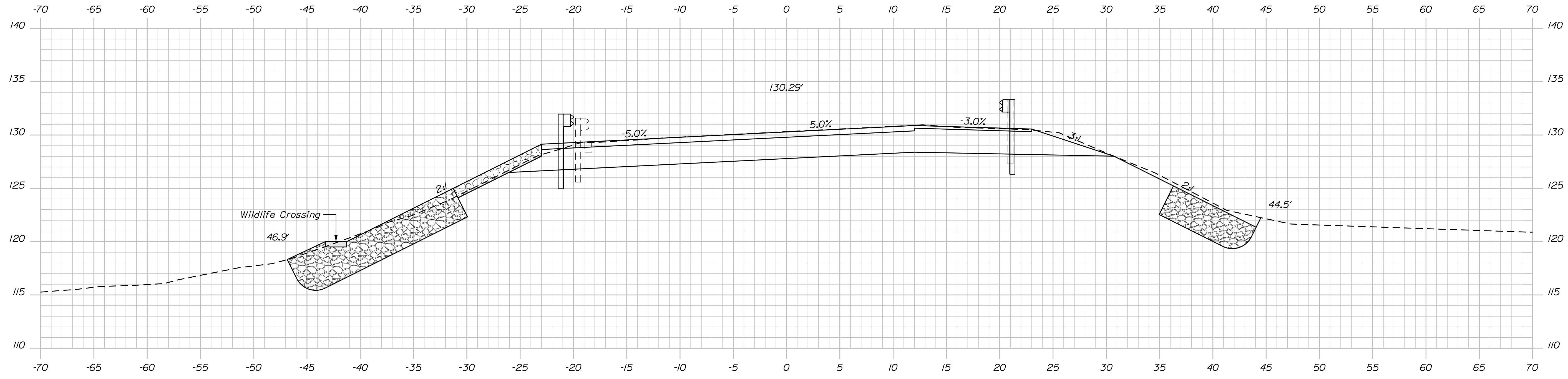
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OF 23

Date: 10/10/2018

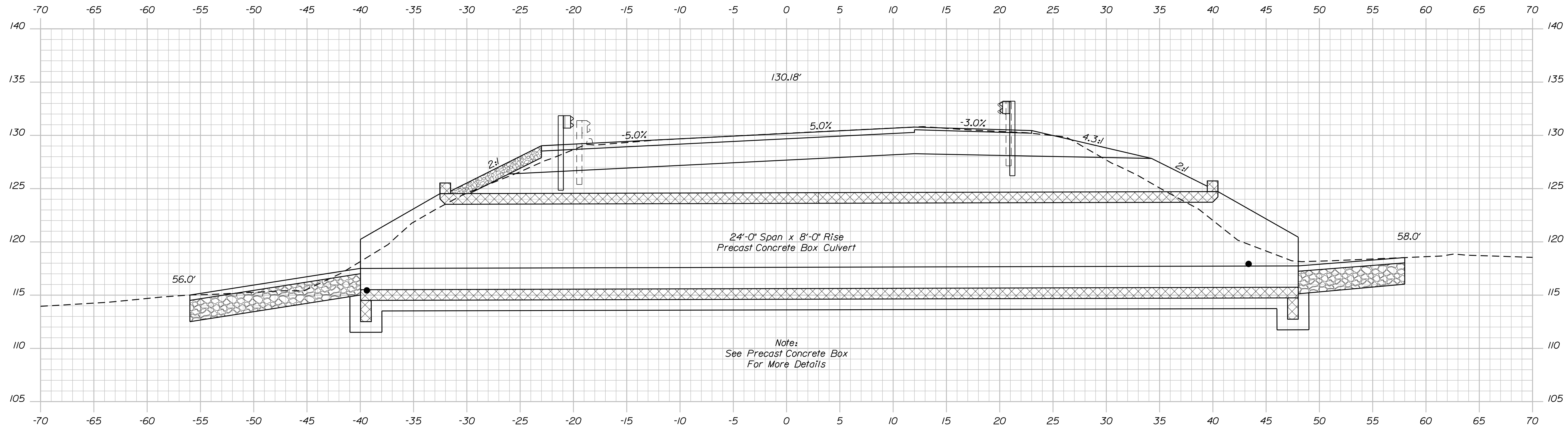
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Division: BRIDGE

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6+25.00



Note:
See Precast Concrete Box
For More Details

6+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
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WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

PROJ. MANAGER	BY	DATE
DESIGN DETAILED	M. WIGHT	MAR 2018
CHECKED/REVIEWED	B. BARTLETT	OCT 2018
DESIGNS DETAILED	R. MYERS	APR 2016
DESIGNS DETAILED	T. WHITE	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

SHEET NUMBER
13
OF 23

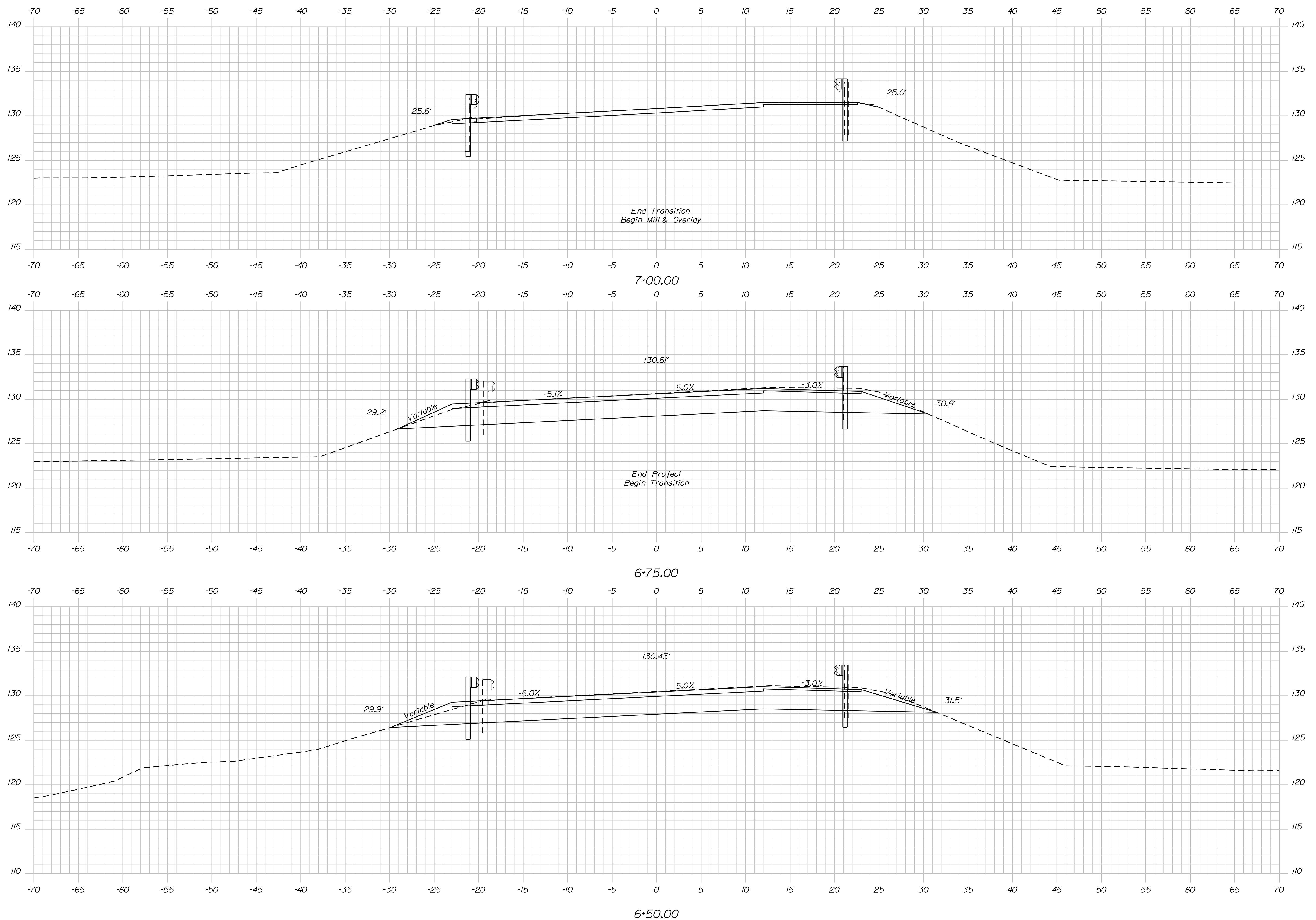
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Date: 10/10/2018

Username: Mark.Poulin

Division: BRIDGE

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STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 018949.00
 WIN
 18949.00
 BRIDGE NO. 3620
 BRIDGE PLANS

ROCKY STREAM BRIDGE
 ROCKY STREAM
 CRAWFORD WASHINGTON COUNTY
 CROSS SECTIONS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	B. BARTLETT	M.A.P.	MAR 2018
CHECKED-REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGN-DETAILED	B. LAJEN		APR 2016
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FIELD CHANGES			

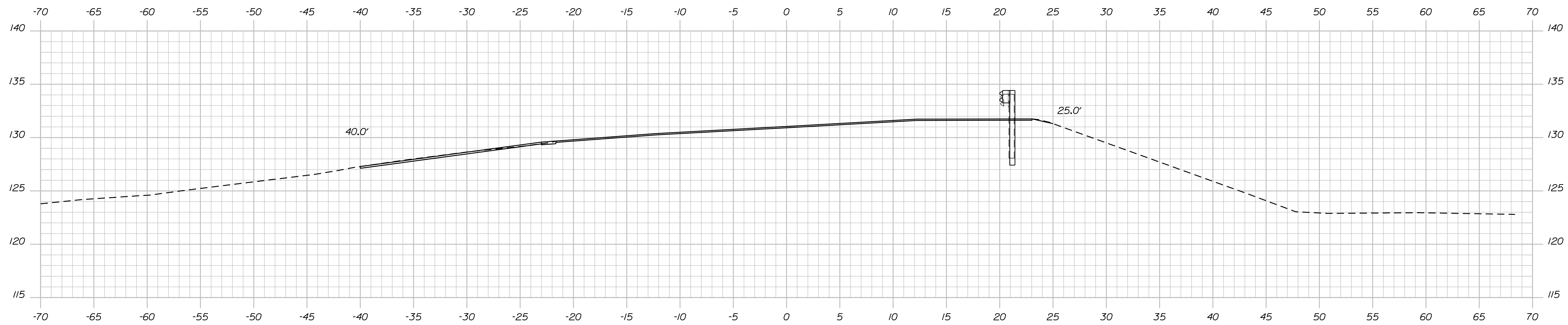
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 OF 23

Date: 10/10/2018

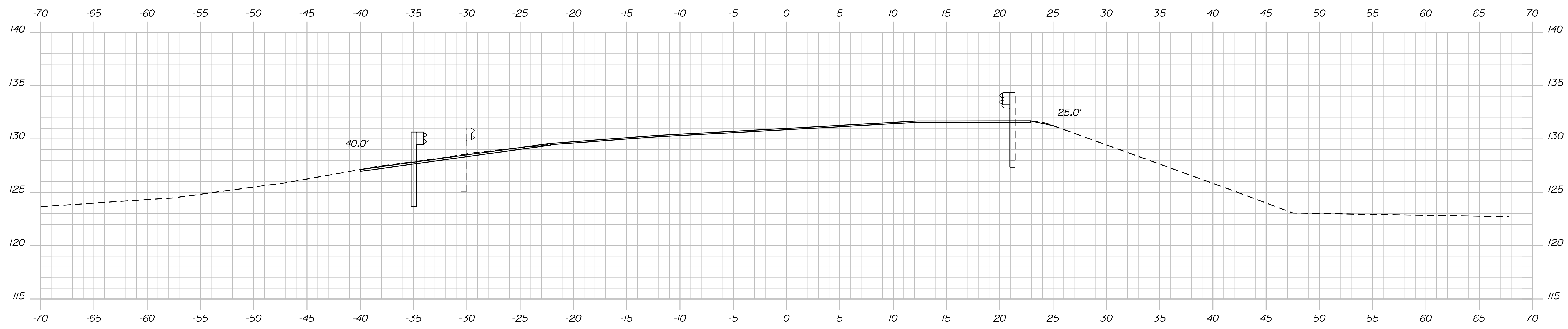
Username: Mark.Poulin

Division: BRIDGE

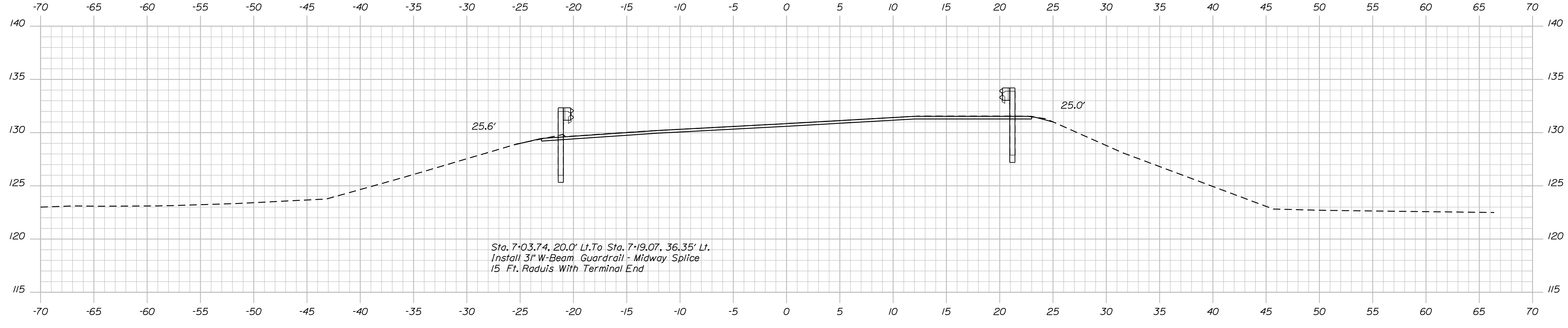
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7+25.00



7+19.07



7+03.74

Sta. 7+03.74, 20.0' Lt. To Sta. 7+19.07, 36.35' Lt.
 Install 3" W-Beam Guardrail - Midway Splice
 15' Ft. Radius With Terminal End

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 019949.00
 WIN
 18949.00
 BRIDGE NO. 3620
 BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	DATE	
DESIGN DETAILED	B. BARTLETT	M.A.P.	MAR 2018
CHECKED/REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGN DETAILED	B. SLAVEN		APR 2016
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE

ROCKY STREAM BRIDGE
 ROCKY STREAM
 CRAWFORD WASHINGTON COUNTY
 CROSS SECTIONS

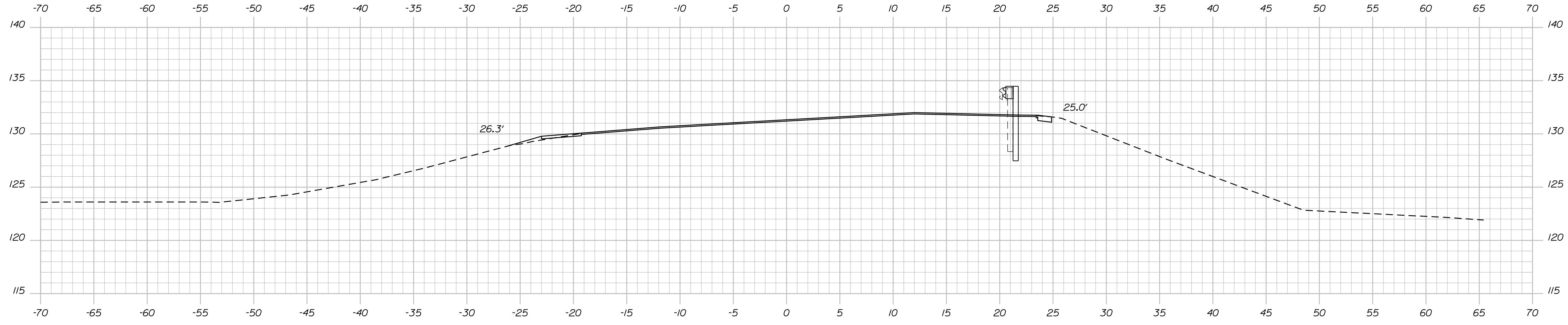
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 OF 23

Date: 10/10/2018

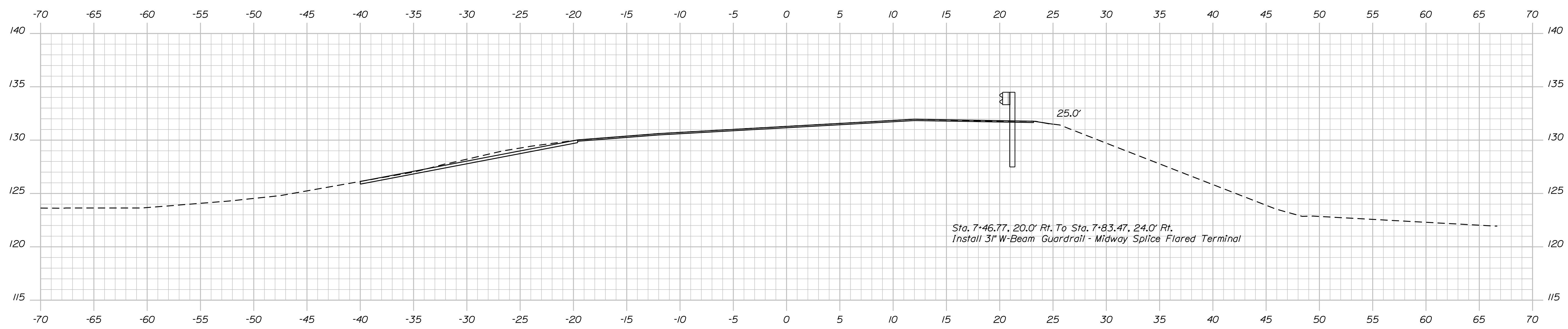
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Division: BRIDGE

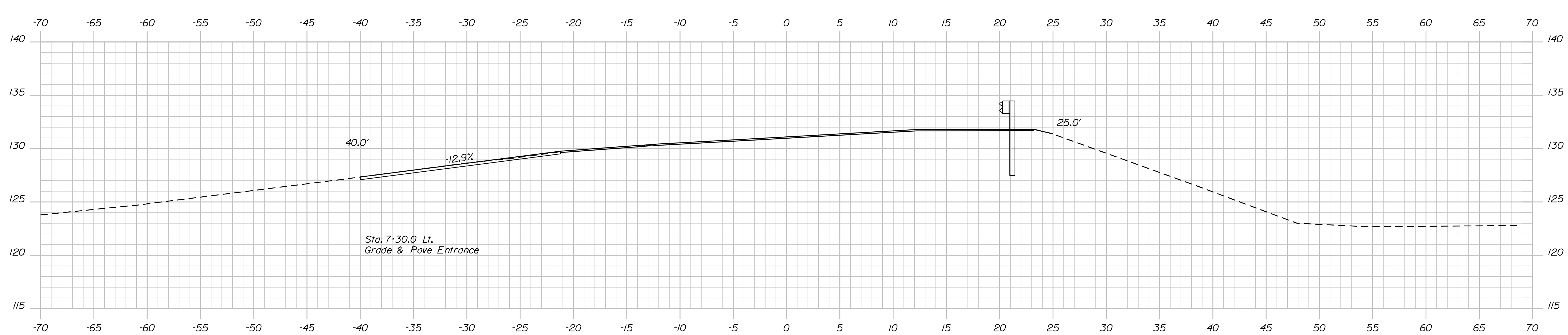
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7+50.00



7+46.77



7+30.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

DESIGNED	B. BARTLETT	MAR 2018	SIGNATURE
CHECKED	R. MYERS	OCT 2018	
DESIGNED	B. SLAVEN	APR 2016	P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER	M. WIGHT	DATE
DESIGNED	B. BARTLETT	MAR 2018
CHECKED	R. MYERS	OCT 2018
DESIGNED	B. SLAVEN	APR 2016
REVISIONS 1		
REVISIONS 2		
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REVISIONS 4		
FIELD CHANGES		

ROCKY STREAM BRIDGE
ROCKY STREAM
WASHINGTON COUNTY
CRAWFORD
CROSS SECTIONS

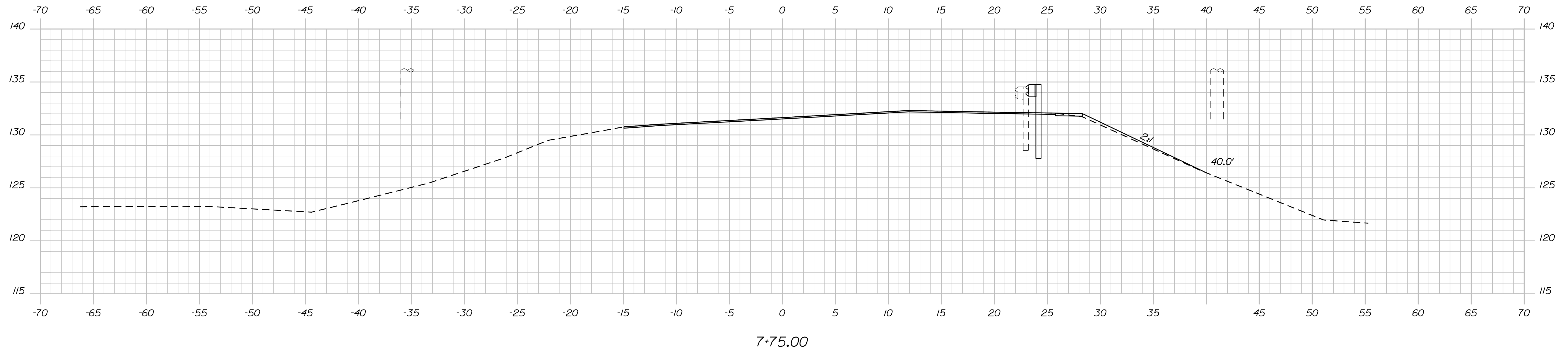
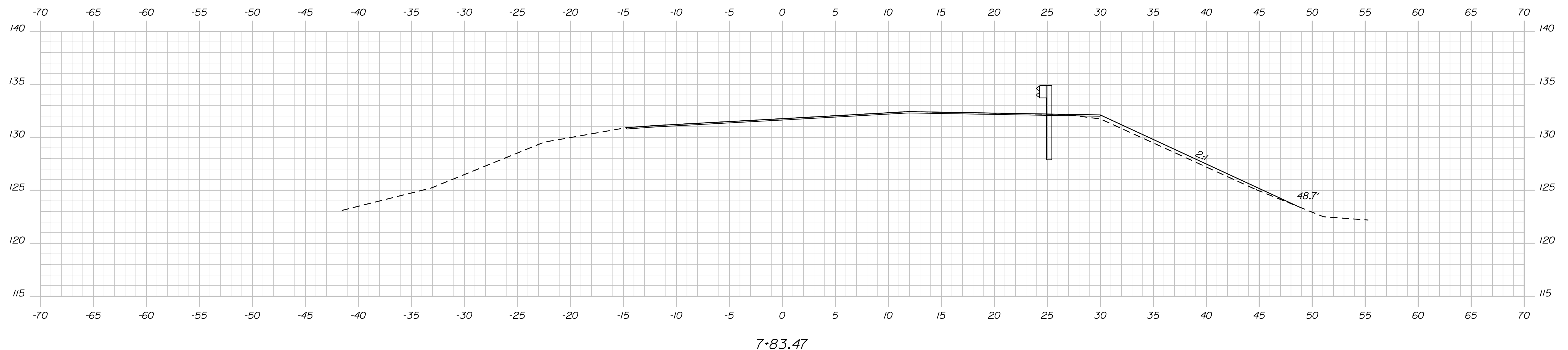
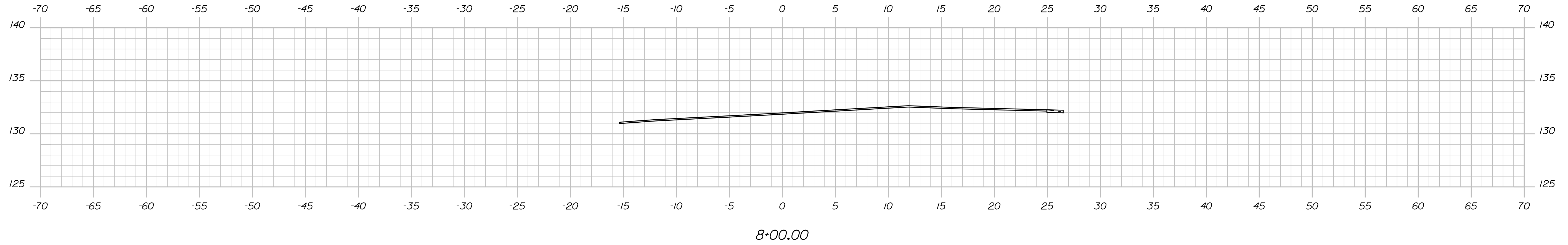
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OF 23

Date: 10/10/2018

Username: Mark.Poulin

Division: BRIDGE

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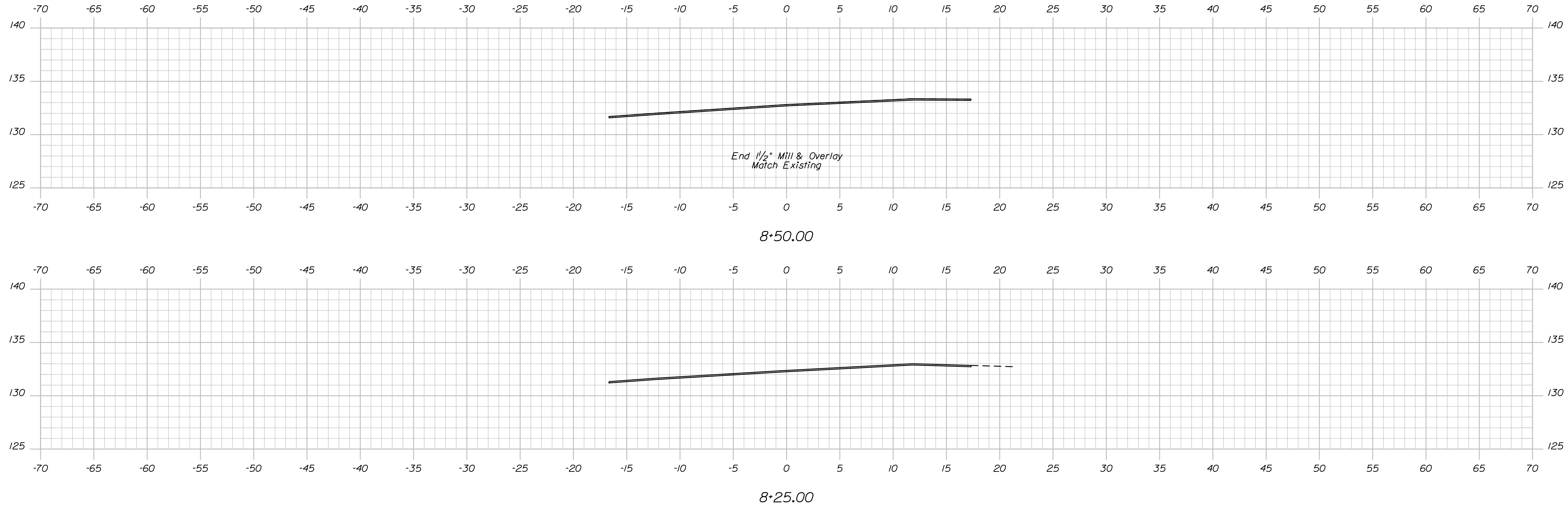


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	B. BARTLETT	M.A.P.	MAR 2018
CHECKED-REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGNS-DETAILED	B. SIAVEN		APR 2016
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
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FIELD CHANGES			

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

SHEET NUMBER
17
OF 23



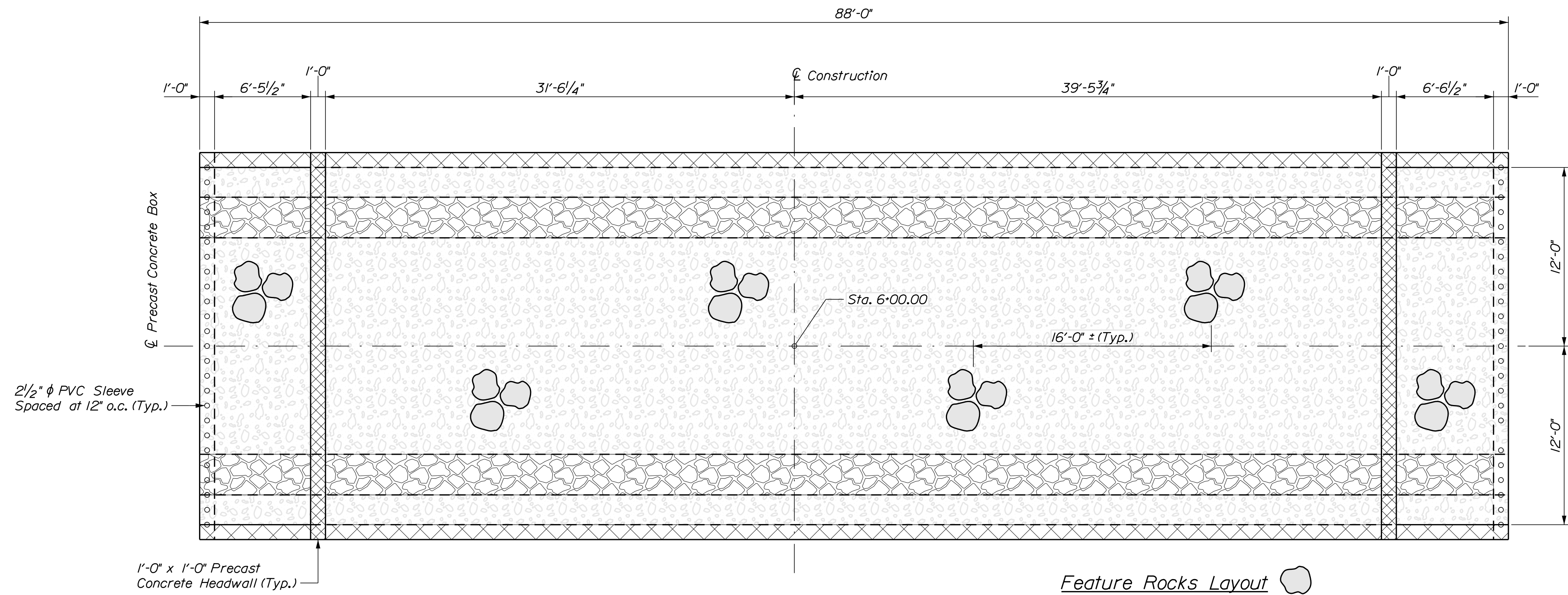
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
BRIDGE NO. 3620 WIN 18949.00
BRIDGE PLANS

PROJ. MANAGER	BY	DATE
DESIGN DETAILED	M. WIGHT	MAR 2018
CHECKED/REVIEWED	B. BARTLETT	OCT 2018
DESIGN DETAILED	R. MYERS	APR 2016
DESIGN DETAILED	B. SLAVEN	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
CROSS SECTIONS

SHEET NUMBER
18
OF 23



PRECAST CONCRETE BOX PLAN

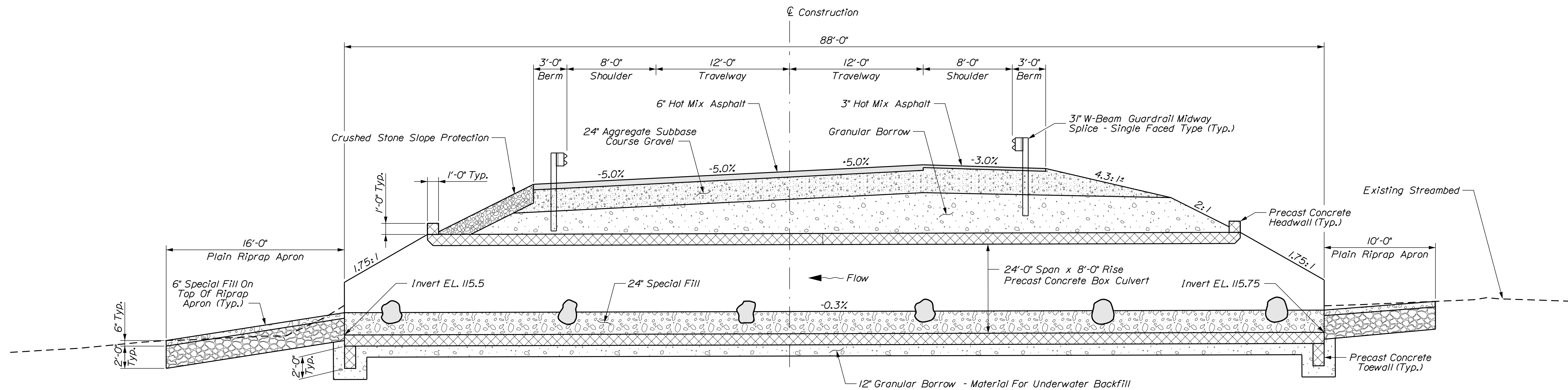
Feature Rocks Layout
 Place 3 Feature Rocks Per Cluster.
 Individual Feature Rocks Shall Be 24" To 36" Diameter

Precast Concrete Box Notes:

- The precast units shall be designed to carry construction loadings with a minimum cover of 18 inches over the top of the units.
- The construction, handling, and assembly of the precast units shall be in accordance with Standard Specifications Section 534, Precast Structural Concrete, and with the manufacturer's specifications as applicable.

Wildlife Shelf Notes:

- Wildlife shelves shall tie into the grading/topography outside the limits of the proposed riprap slopes.



TYPICAL BRIDGE SECTION

DESIGNED BY	DATE
CHECKED BY	DATE
DESIGNED BY	DATE
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

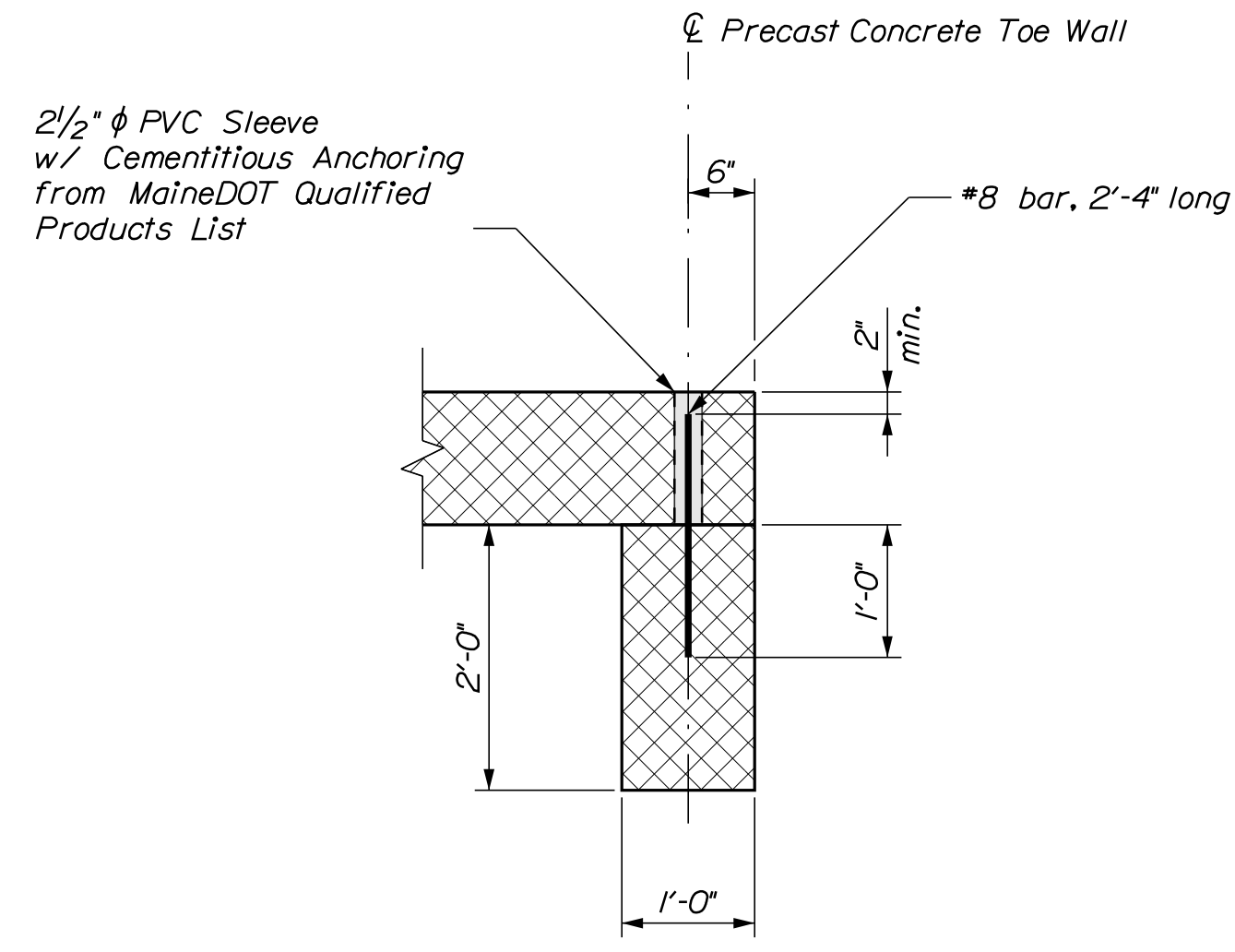
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CHECKED/REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGN DETAILED	B. SLAVEN		APR 2016
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ROCKY STREAM BRIDGE
 ROCKY STREAM
 CRAWFORD WASHINGTON COUNTY
 PRECAST CONCRETE BOX DETAILS

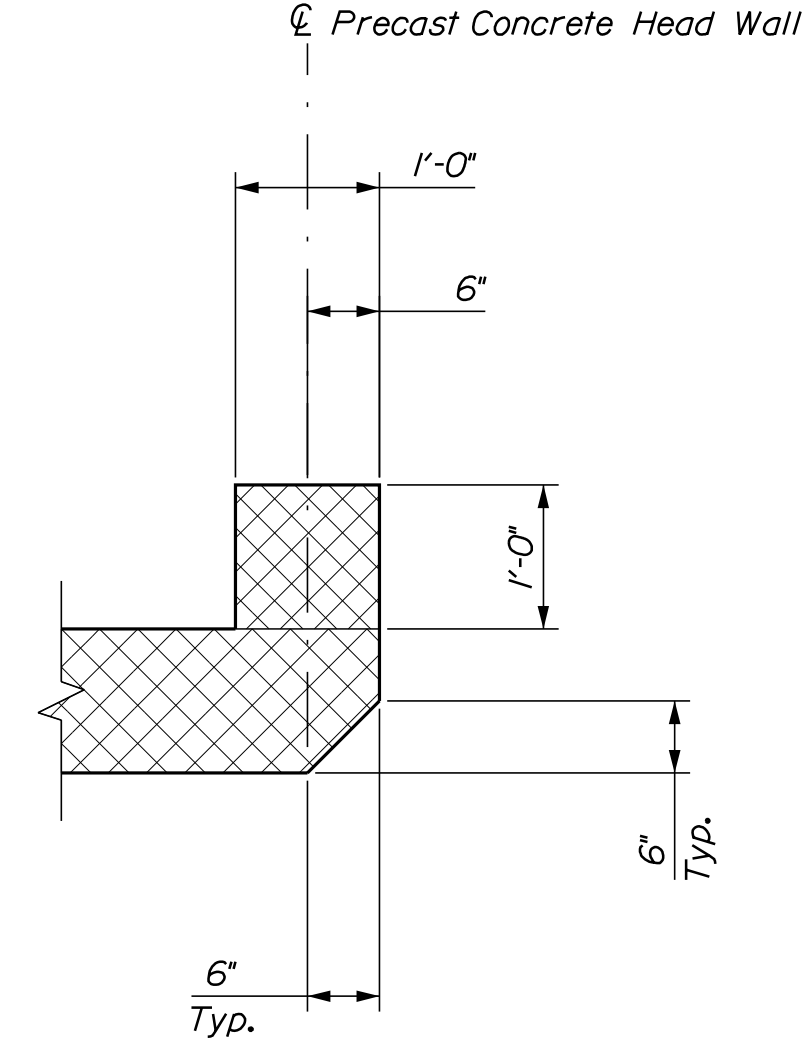
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19

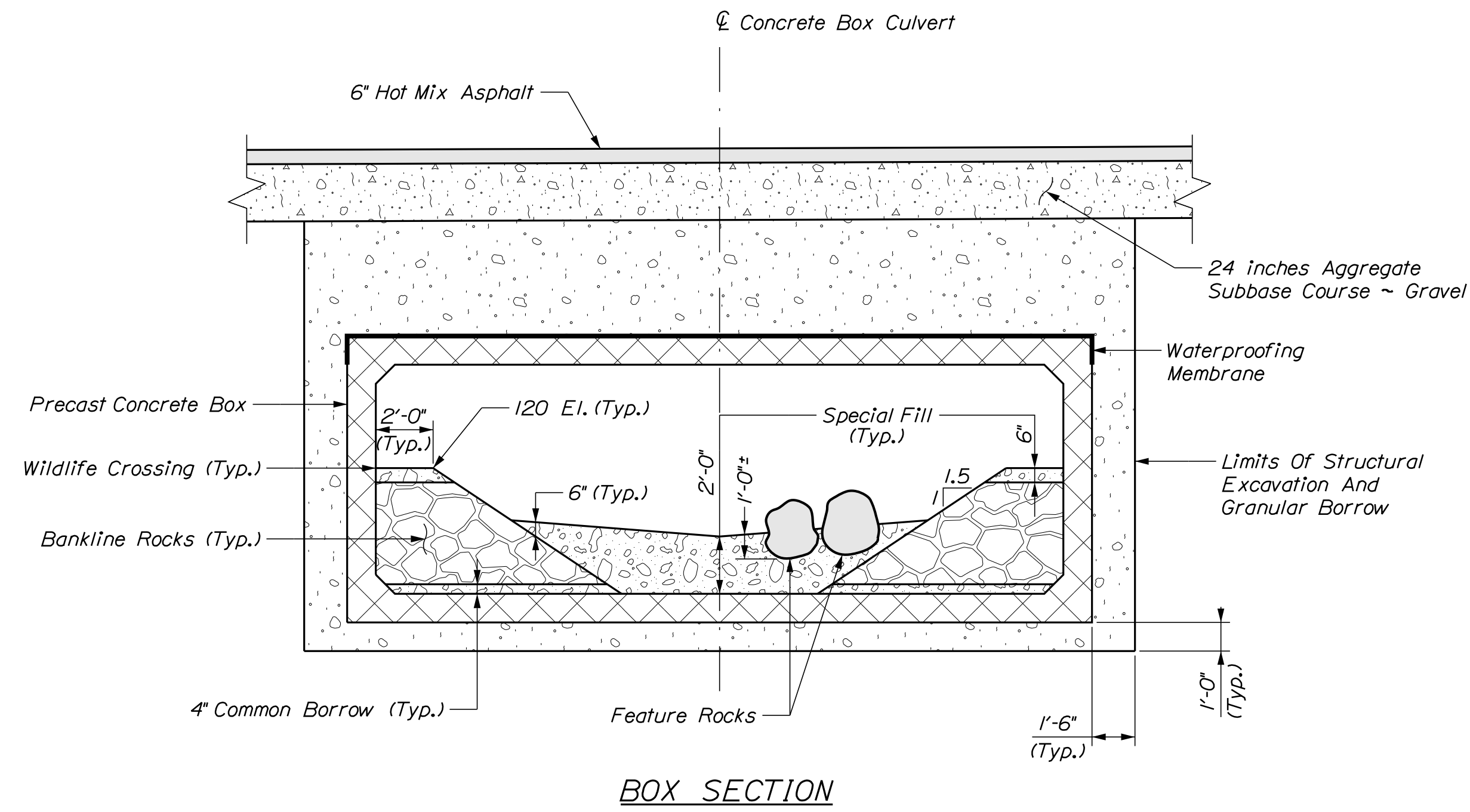
OF 23



PRECAST CONCRETE TOEWALL DETAIL



PRECAST CONCRETE HEADWALL DETAIL



BOX SECTION

STATE OF MAINE
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18949.00
BRIDGE NO. 3620
BRIDGE PLANS

DESIGNED	B. BARTLETT	MAR 2018	SIGNATURE
CHECKED	R. MYERS	OCT 2018	
DESIGNED	B. SLAVEN	APR 2016	P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN DETAILED	B. BARTLETT	M.A.P.	MAR 2018
CHECKED	R. MYERS	T. WHITE	OCT 2018
DESIGN DETAILED	B. SLAVEN		APR 2016
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ROCKY STREAM BRIDGE
ROCKY STREAM
WASHINGTON COUNTY
CRAWFORD
PRECAST CONCRETE BOX DETAILS

SHEET NUMBER
20
OF 23

STAGED CONSTRUCTION NOTES:

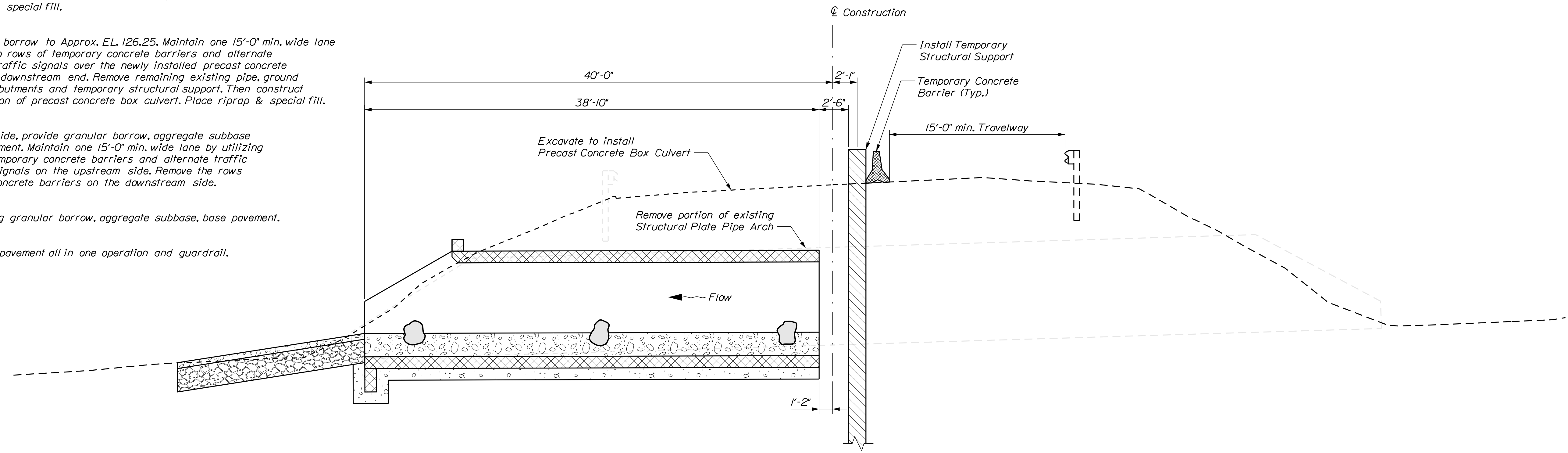
Stage I
 Install temporary structural support. Maintain one 15'-0" min. wide lane by utilizing existing guardrail, one row of temporary concrete barriers and alternate traffic using traffic signals on the upstream side. Remove the downstream section of the existing pipe, ground and existing abutments if necessary. Construct downstream portion of precast concrete box culvert. Place riprap & special fill.

Stage II
 Place granular borrow to Approx. EL. 126.25. Maintain one 15'-0" min. wide lane by utilizing two rows of temporary concrete barriers and alternate traffic using traffic signals over the newly installed precast concrete box culvert on downstream end. Remove remaining existing pipe, ground and existing abutments and temporary structural support. Then construct upstream portion of precast concrete box culvert. Place riprap & special fill.

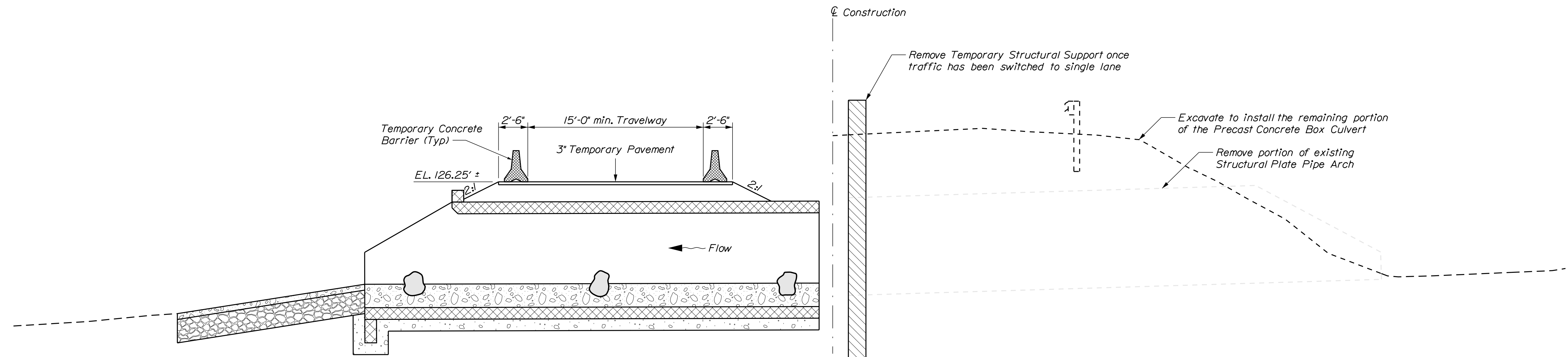
Stage III
 On upstream side, provide granular borrow, aggregate subbase and base pavement. Maintain one 15'-0" min. wide lane by utilizing two rows of temporary concrete barriers and alternate traffic using traffic signals on the upstream side. Remove the rows of temporary concrete barriers on the downstream side.

Stage IV
 Place remaining granular borrow, aggregate subbase, base pavement.

Stage V
 Place surface pavement all in one operation and guardrail.



STAGE I



STAGE II

Date: 10/10/2018

Username: Mark.Poulin

Division: BRIDGE

Filename: ... \021_StageConstruction_1.dgn

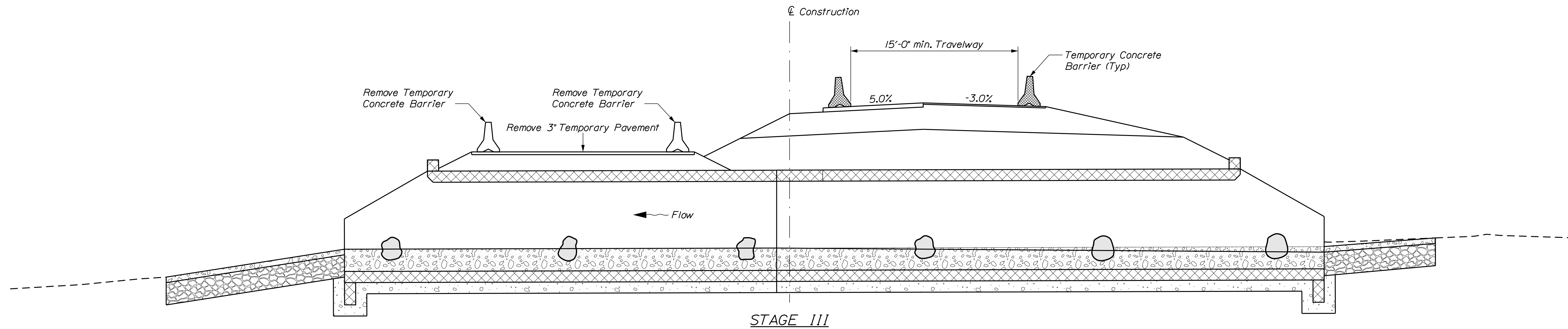
STATE OF MAINE	DEPARTMENT OF TRANSPORTATION	018949.00	WIN	18949.00
		BRIDGE NO. 3620	BRIDGE PLANS	

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN DETAILED	B. BARTLETT	M.A.P.	MAR 2018
CHECKED-REVIEWED	R. MYERS	T. WHITE	OCT 2018
DESIGN DETAILED	B. SJAVEN		APR 2016
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

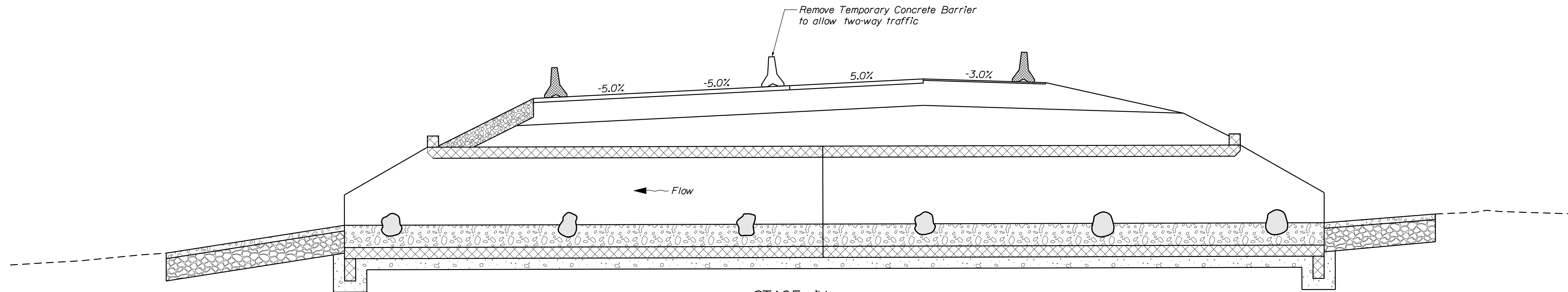
SIGNATURE	P.E. NUMBER	DATE

ROCKY STREAM BRIDGE
 ROCKY STREAM
 CRAWFORD WASHINGTON COUNTY
 STAGED CONSTRUCTION PLANS 1 OF 2

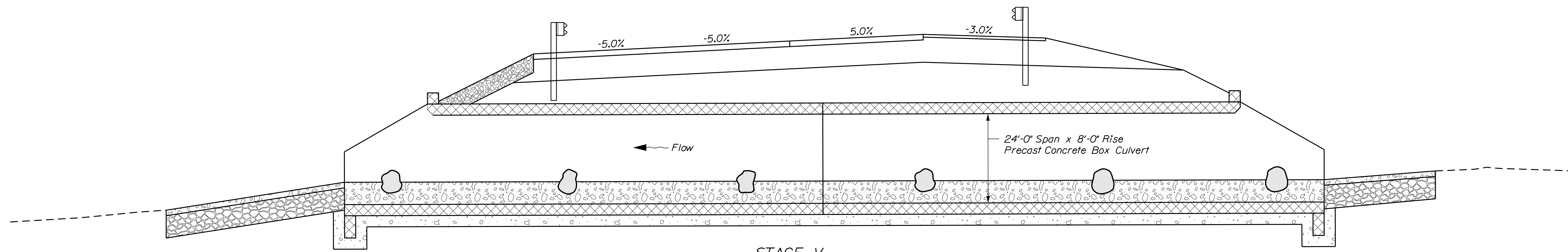
SHEET NUMBER
21
 OF 23



STAGE III



STAGE IV



STAGE V

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
018949.00
WIN
18949.00
BRIDGE NO. 3620
BRIDGE PLANS

DESIGN DETAILED	BY	DATE	SIGNATURE
CHECKED/REVIEWED	M. WIGHT	MAR 2018	
DESIGN DETAILED	B. BARTLETT	OCT 2018	
DESIGN DETAILED	R. MYERS	APR 2016	
DESIGN DETAILED	T. WHITE		
REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER	BY	DATE
DESIGN DETAILED	M. WIGHT	
CHECKED/REVIEWED	B. BARTLETT	
DESIGN DETAILED	R. MYERS	
DESIGN DETAILED	T. WHITE	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

ROCKY STREAM BRIDGE
ROCKY STREAM
CRAWFORD WASHINGTON COUNTY
STAGED CONSTRUCTION PLANS 2 OF 2

SHEET NUMBER
22
OF 23

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 _____

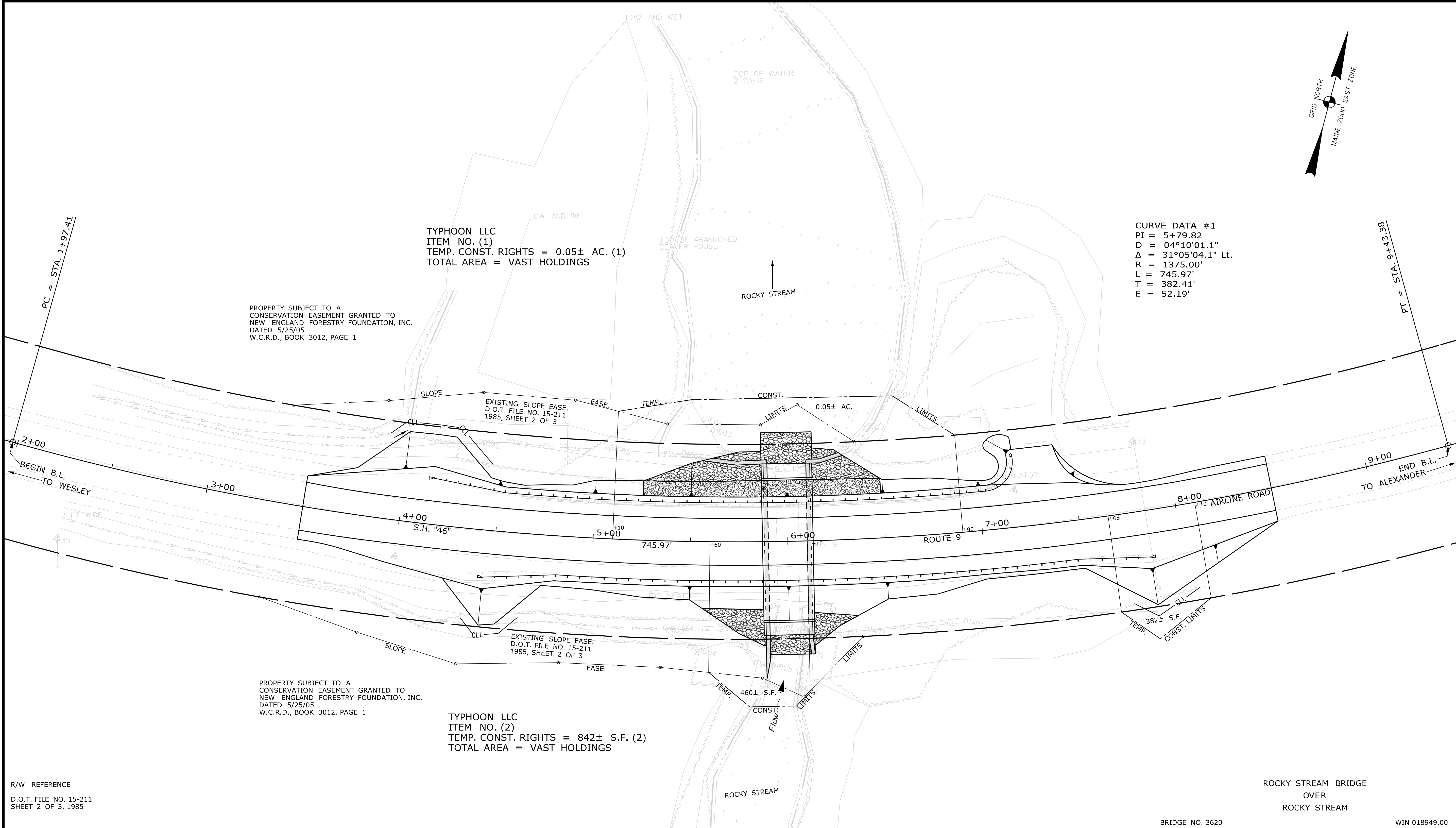
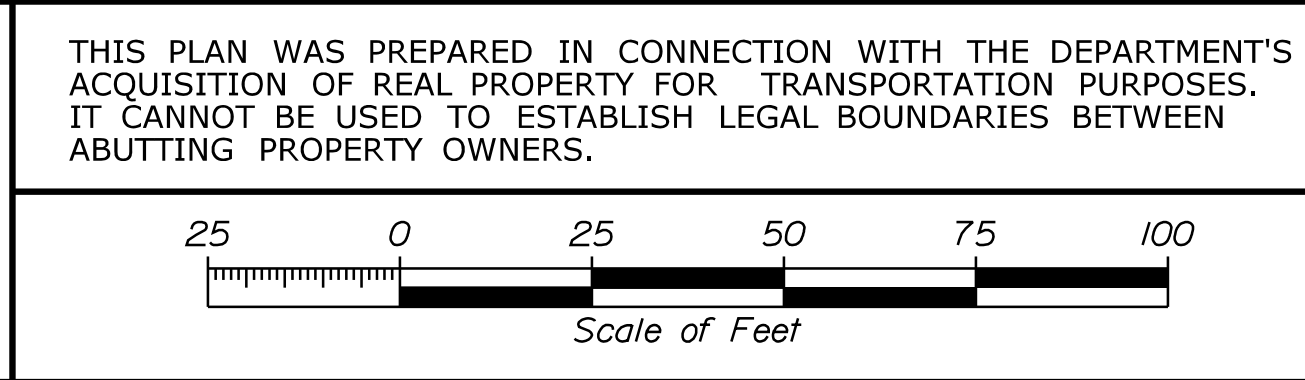
Clearing Limit Line _____
 Deciduous _____
 Bush Line _____
 Rock/Boulder _____
 Barb Wire _____
 Stockade _____
 Well _____
 Mailbox _____

PLAN LEGEND
 Existing Proposed
 Sanitary Sewer _____
 Telephone Line _____
 Electric Line _____
 Water Line _____
 Underdrain Line _____
 Gas Line _____
 Guardrail _____
 Culvert _____

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

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

STATE OF MAINE
 REGISTRY OF DEEDS
 COUNTY _____
 RECEIVED _____
 at _____ h _____ m _____ M and recorded in
 Plan Book _____, Page _____
 Attest: _____ REGISTER



ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	BWD	
FINAL RIGHT OF WAY	BDM	
AREAS	BDM	

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

DAVID BERNHARDT
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER
 DATE _____

STATE HIGHWAY "46"
 ROUTE 9 AIRLINE ROAD
 CRAWFORD WASHINGTON COUNTY
 STATE PROJECT NO. 18949.00
 AUGUST 2018 RIGHT-OF-WAY MAP
 SCALE 1" = 25' SHEET 1 OF 1

SHEET NUMBER
23
 OF 23

Date: 10/10/2018
 Username: Mark.Poulin
 Division: BRIDGE
 Filename: ... \00\ROW\MSTA001_RWP\PLAN1.dgn

R/W REFERENCE
 D.O.T. FILE NO. 15-211
 SHEET 2 OF 3, 1985

PROPERTY SUBJECT TO A
 CONSERVATION EASEMENT GRANTED TO
 NEW ENGLAND FORESTRY FOUNDATION, INC.
 DATED 5/25/05
 W.C.R.D., BOOK 3012, PAGE 1

PROPERTY SUBJECT TO A
 CONSERVATION EASEMENT GRANTED TO
 NEW ENGLAND FORESTRY FOUNDATION, INC.
 DATED 5/25/05
 W.C.R.D., BOOK 3012, PAGE 1

TYPHOON LLC
 ITEM NO. (2)
 TEMP. CONST. RIGHTS = 842± S.F. (2)
 TOTAL AREA = VAST HOLDINGS

BRIDGE NO. 3620 WIN 018949.00