STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

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

DESIGN LOADING

Live Load ..... HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2016) AADT	1810
Future (2036) AADT	2170
DHV - % of AADT	11%
Design Hour Volume	239
Heavy Trucks (% of AADT)	8%
Heavy Trucks (% of DHV)	7%
Directional Distribution (% of DHV)	53%
18 kip Equivalent P 2.0	106
18 kip Equivalent P 2.5	101
Design Speed (mph)	50

HYDROLOGIC DATA

Drainage Area	2.0 sq mi
Design Discharge (Q50)	141.6 cfs
Check Discharge (Q100)	165.7 cfs
Headwater Elevation (Q1.1)	63.72 ft
Headwater Elevation (Q25)	65.12 ft
Headwater Elevation (Q50)	73.92 ft
Headwater Elevation (Q100)	75.00 ft
Discharge Velocity (Q1.1)	2.56 fps
Discharge Velocity (Q50)	4.90 fps
Discharge Velocity (Q100)	5.37 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

WALDOBORO
LINCOLN COUNTY
WAGNER NO. 2 BRIDGE
OVER
HOCH BROOK
STATE ROUTE 32 (WINSLOWS MILLS ROAD)
STATE PROJECT NO. 018230.00
PROJECT LENGTH 0.080 mi.
BRIDGE NO. 2905

LIST OF DRAWINGS

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General Plan & Profile	3
Boring Location Plan & Interpretive Subsurface Profile	4
Boring Logs	5-6
Cross Sections	7-17
Precast Concrete Box Details	18-19
Stream Simulation Details	20
Detour Plan	21
Right of Way Map	22

UTILITIES

Central Maine Power Company
Consolidated Communications
Time Warner Cable

MAINTENANCE OF TRAFFIC

Bridge Closure with traffic detoured as shown on the plans.

PROJECT LOCATION	State Route 32 (Winslows Mills Road) Over Hoch Brook, 0.30 Miles South of Depot Street in Waldoboro Lat./Long. 44°08'29"N/69°25'02"W
PROGRAM AREA	Bridge Program
OUTLINE OF WORK	Replace Existing Bridge with a Precast Concrete Box Culvert Rebuild 425 feet of Roadwork and Install Guardrail Around Concrete Box Culvert.

WIN 18230.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE 11/13/19

COMMISSIONER: [signature] — DATE 11-12-19

CHIEF ENGINEER: Angela L. Taylor

STATE OF MAINE — JAIME FRENCH — No. 14041 — LICENSED PROFESSIONAL ENGINEER

PROJECT INFORMATION				
PROGRAM	BRIDGE	SIGNATURE	P.E. NUMBER	
PROJECT MANAGER	DEVAN EATON	14041	11-7-2019	
DESIGNER	JAIME FRENCH			
CONSULTANT	FUSS & O'NEILL	DATE		
PROJECT RESIDENT				
CONTRACTOR				
PROJECT COMPLETION DATE				

WALDOBORO
WAGNER NO. 2 BRIDGE

TITLE SHEET

SHEET NUMBER
1
OF 22

Filename:\Bentley\ustn\001_Title.dgn Division: BRIDGE Username: Date:11/7/2019

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.19	REMOVING EXISTING BRIDGE (259 CY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	190	SY
203.20	COMMON EXCAVATION	540	CY
203.24	COMMON BORROW	22	CY
203.25	GRANULAR BORROW	520	CY
203.33	SPECIAL FILL	62	CY
206.061	STRUCTURAL EARTH EXCAVATION - DRAINAGE MINOR STRUCTURES BELOW GRADE	351	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1,200	CY
403.208	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE	150	T
403.209	HOT MIX ASPHALT, 9.5 MM MAXIMUM SIZE (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	5	T
403.213	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (BASE AND INTER. BASE COURSE)	230	T
409.15	BITUMINOUS TACK COAT, APPLIED	60	G
508.13	SHEET WATERPROOFING MEMBRANE (100 SY)	1	LS
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
513.22	CRUSHED STONE SLOPE PROTECTION	29	SY
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (99 SY)	1	LS
526.301	TEMPORARY CONCRETE BARRIER, TYPE 1 (100LF)	1	LS
534.71	PRECAST CONCRETE BOX CULVERT (167 CY)	1	LS
603.16	15" CULVERT PIPE OPTION 1	20	LF
606.1301	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (SINGLE FACED, STEEL POST, 8" OFFSET BLOCKS)	413	LF
606.1305	31" W-BEAM GUARDRAIL - MID-WAY SPLICE - FLARED TERMINAL	4	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
607.24	REMOVE AND RESET FENCE	150	LF
610.08	PLAIN RIPRAP	275	CY
610.18	STONE DITCH PROTECTION	29	CY
610.210	STREAM CHANNEL ROCK	80	CY
610.212	STREAM STONE - STREAMBED ROCK FEATURES	6	CY
613.319	EROSION CONTROL BLANKET	22	SY
615.07	LOAM	70	CY
618.14	SEEDING METHOD NUMBER 2	11	UN
619.12	MULCH	11	UN
619.14	EROSION CONTROL MIX	70	CY
620.58	EROSION CONTROL GEOTEXTILE	540	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1500	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
652.312	TYPE III BARRICADES	4	EA
652.33	DRUM	20	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGNS	420	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (60 CD)	1	LS
652.38	FLAGGERS	240	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

1. During construction, the road will be closed to traffic for a time period specified in the Special Provisions.

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

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

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

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

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

7. All embankment material, except as otherwise shown, placed below EL. 67 shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.

8. Place riprap as shown on sideslopes up to guardrail berm.

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

10. 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.

11. Place a 24 inch wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap.

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

13. 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.

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

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

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

16. 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.

17. 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.

18. The project geotechnical report titled: Geotechnical Design Report for the replacement of Wagner No. 2 bridge Route 32 over Hoch Brook, Waldoboro, Maine, dated August 29, 2019 may be accessed at the MaineDOT web address.

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

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

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

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

20. Cattle Fencing on Parcel 4, as shown on the Right of Way map, shall be removed and become property of the Contractor. Payment shall be considered incidental to related Contract items.

21. Cattle Fencing on Parcel 5 as shown on the Right of Way Map shall be removed and reset as Directed by the Resident. Payment shall be made under item 607.24 Remove and Reset Fence.

22. All excavation required to remove existing roadway subbase material shall be paid for under item 203.20 Common Excavation. The material removed as part of the over excavation greater than 1'-0" below the proposed structure shall be paid for under item 206.061 Structural Excavation - Drainage and Minor Structures Below Grade. All other excavation shall be incidental to Items 202.19 Remove Existing Bridge and 534.71 Precast Concrete Box Culvert.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

		BY	DATE
PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	J. FRENCH	-	8\19
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

ESTIMATED QUANTITIES &
GENERAL CONSTRUCTION NOTES

SHEET NUMBER

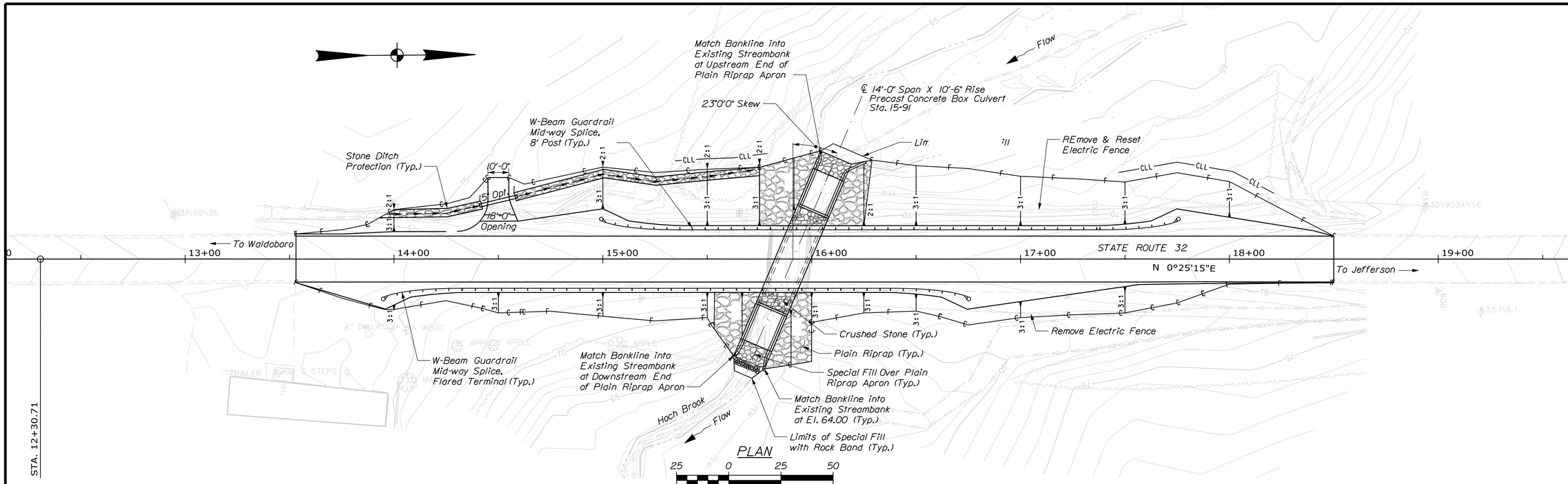
2

OF 22

Username: Devon.C.Eaton Date:11/7/2019

Division: BRIDGE

Filename: ...\002_Estimate_Quantities.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	M. W. SMITH	8\19
CHECKED-REVIEWED	A. GIRALDI	8\19
DESIGN2-DETAILED2	J. FRENCH	-
DESIGN3-DETAILED3	E. MALONEY	8\19
REVISIONS 1	M. G. SMITH	-
REVISIONS 2	-	-
REVISIONS 3	-	-
REVISIONS 4	-	-
FIELD CHANGES	-	-

SIGNATURE

P.E. NUMBER

DATE

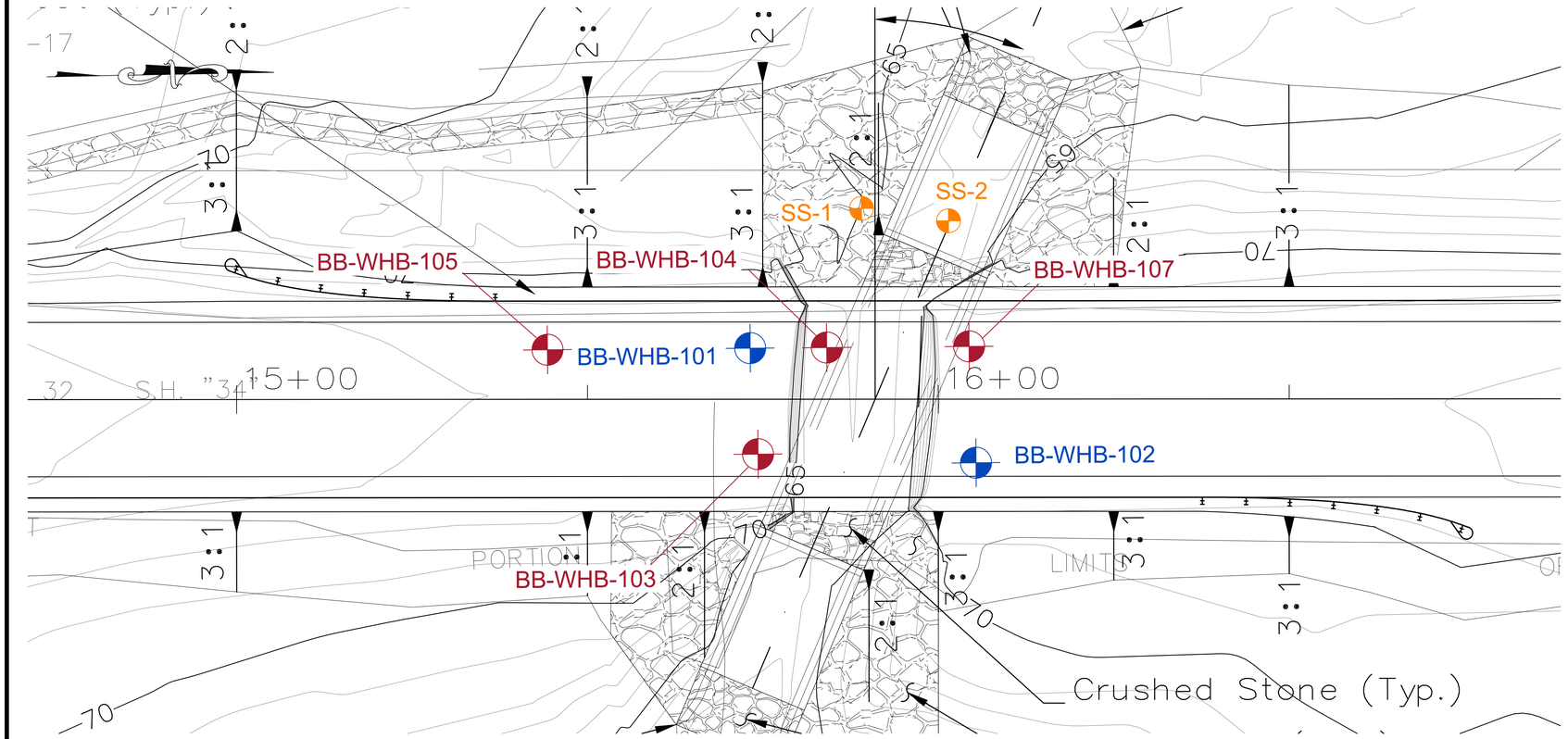
WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

GENERAL PLAN & PROFILE

SHEET NUMBER

3

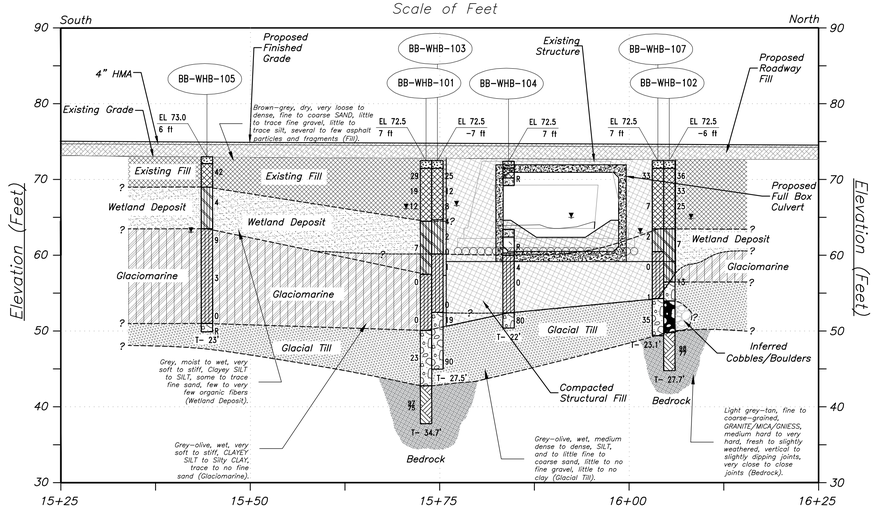
OF 22



PLAN

10 0 10 20

Scale of Feet



Interpretive Subsurface Profile

Station along Centerline of Proposed Bridge #2905 (feet)

PROFILE

Horiz. 10 0 10 20

Vert. 10 0 10 20

Scale of Feet

Legend

- BB-WHB-101 — Boring location observed by Nobis in 2017.
- BB-WHB-103 — Boring location observed by Nobis in 2019.
- SS-1 — Sediment sample location collected by Nobis in 2017.

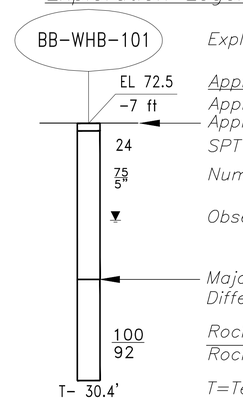
Note:

1. For additional information relating to the nature and results of the test borings observed by Nobis, refer to the Nobis Geotechnical Design Report, dated August, 2019.

Strata Legend

- Existing Fill
- Proposed Roadway Fill
- Compacted Structural Fill
- Concrete
- Wetland Deposit
- Glaciomarine
- Glacial Till
- Inferred Cobbles / Boulders
- Cored Bedrock

Exploration Legend



*Positive offsets are in the west direction. negative offsets are in the east direction.

Note:

1. This 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 subsurface explorations and samples. Actual soil transitions may vary. For more specific information refer to the Nobis Boring Logs.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE PLANS

BRIDGE NO.2905

STATE OF MAINE * KURT JELINEK No. 11746 * PROFESSIONAL ENGINEER

K. Jelinek — SIGNATURE

11746 — P.E. NUMBER

August 15, 2019 — DATE

	D. EATON	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	J. FRENCH	K. KOCIA	08.15.2019
CHECKED-REVIEWED	–	K. JELINEK	08.15.2019
DESIGN2-DETAILED2	L. GREER	–	–
DESIGN3-DETAILED3	–	–	–
REVISIONS 1	–	–	–
REVISIONS 2	–	–	–
REVISIONS 3	–	–	–
REVISIONS 4	–	–	–
FIELD CHANGES	–	–	–

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

4

OF 22

Division: BRIDGE

Username:

Date:08/14/2019

Filename:

Filename: ...\ustn\005_BoringLog_01.dgn Division: BRIDGE Username: Date:11/1/2019

Maine Department of Transportation — Boring No.: BB-WHB-101

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 32 over Hoch Brook at Wagner No. 2 Bridge #2905
Location: Waldoboro, Maine

Boring No.: BB-WHB-101
WIN: 18230.00

Driller: New England Boring Contractors	Elevation (ft.): 72.5	Auger ID/OD:	3"/3.25"
Operator: M. Porter	Datum: NAVD-88	Sampler:	1-3/8" Split-Spoon
Logged By: K. Kocis (Nobis)	Rig Type: B-53 Mobile Truck	Hanner Wt./Fall:	140#/30"
Date Start/Finish: December 6, 2017/December 6, 2017	Drilling Method: Cased Wash Boring	Core Barrel:	N/A
Boring Location: STA 15+72.43, 7' LT	Casing ID/OD: 4"/4.5" ; 3"/3.5"	Water Level*:	6.3' ags
Hanner Efficiency Factor: 0.869	Hanner Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐	

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Field Vane Shear Test Attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hanner
WOR/C = Weight of Rods or Casing
WOP = Weight of Dre Person
T_v = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw Field SPT N-value
Hanner Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hanner Efficiency
N_{60} = (Hanner Efficiency Factor/60)*N-uncorrected
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows/6 in. Spoon Pen. Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							RC			Asphalt (12").	
	1D	24/13	1.00 - 3.00	19/13/7/7	20	29		71.5		Brown-grey, dry, medium dense, fine to coarse SAND, little fine gravel, trace silt, several asphalt particles and fragments, (Fill). — 1.0	
							80				
	2D	24/11	3.00 - 5.00	6/8/5/6	13	19				Brown-grey, dry, medium dense, fine to coarse SAND, trace fine gravel, trace silt, few asphalt particles and fragments, (Fill).	
5											
	3D	24/11	5.00 - 7.00	4/4/4/3	8	12				Brown-grey, dry, medium dense, fine to coarse SAND, little fine gravel, trace silt, few asphalt particles and fragments, (Fill).	
							50				
10	4D	24/17	10.50 - 12.50	WOH/2/3/2	5	7				Grey, wet, medium stiff, Clayey SILT, some fine sand, very few organic fibers and staining, faint redoximorphic staining, (Wetland Deposit). — 8.0	A-7-6, MH WC=52.0% LL=51 PL=29 PI=22
15	5D	24/22	15.00 - 17.00	WOH/WOH/WOH/WOH	--			57.5		Grey-olive, wet, very soft, SILT & CLAY , (Glaciomarine). — 15.0	A-6, CL WC=35.7% LL=40 PL=20 PI=20
							30				
20	6D	24/23	20.00 - 22.00	WOR/WOR/WOR/WOR	--					Grey-olive, wet, very soft, Clayey SILT, trace fine sand, (Glaciomarine).	
								50.1		— 22.4	
							100				
25	7D	24/10	25.00 - 27.00	11/8/8/8	16	23	RC			Grey-olive, wet, medium dense, fine to coarse SAND, little silt, little fine gravel, (Glacial Till).	A-4
							180				
	R1	60/58	29.70 - 34.70	RQD = 75%			N60	42.8		— 29.7	
30										Top of Bedrock at Elev. 42.80 ft. R1: Bedrock: Grey-tan, fine to medium-grained, GRANITE/MICA/GNIESS, medium hard to hard, fresh to moderately weathered, slightly dipping to 45 degree-angle-dipping, very close to close joints, (Waldoboro Pluton). Rock Mass Quality = Fair R1: Core Times (min:sec) 29.7-30.7 feet (-2:30) 30.7-31.7 feet (-1:45) 31.7-32.7 feet (-1:15) 32.7-33.7 feet (-1:15) 33.7-34.7 feet (-1:30)	
								37.8		— 34.7 Bottom of Exploration at 34.7 feet below ground surface	
35											
40											
45											
50											

Remarks:
-Borehole backfilled with 5 bags of gravel and native soils.
-Pavement restored with asphalt cold patch.
-bgs = below ground surface
-Automatic Hanner ID# B-24.

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.

Page 1 of 1
Boring No.: BB-WHB-101

Maine Department of Transportation — Boring No.: BB-WHB-102

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 32 over Hoch Brook at Wagner No. 2 Bridge #2905
Location: Waldoboro, Maine

Boring No.: BB-WHB-102
WIN: 18230.00

Driller: New England Boring Contractors	Elevation (ft.): 72.5	Auger ID/OD:	3"/3.25"
Operator: M. Porter	Datum: NAVD-88	Sampler:	1-3/8" Split-Spoon
Logged By: K. Kocis (Nobis)	Rig Type: B-59 Mobile Truck	Hanner Wt./Fall:	140#/30"
Date Start/Finish: December 5, 2017/December 5, 2017	Drilling Method: Cased Wash Boring	Core Barrel:	N/A
Boring Location: STA 16+06.52, 6' RT	Casing ID/OD: 4"/4.5" ; 3"/3.5"	Water Level*:	7.6' ags
Hanner Efficiency Factor: 0.869	Hanner Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐	

Definitions:
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MD = Unsuccessful Split Spoon Sample Attempt
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$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
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PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows/6 in. Spoon Pen. Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							RC			Asphalt (12").	
	1D	24/14	1.00 - 3.00	18/13/12/8	25	36		71.5		Brown-grey, dry, medium dense, fine to coarse SAND, little fine gravel, trace silt, very few asphalt particles/fragments, (Fill). — 1.0	
	2D	24/12	3.00 - 5.00	13/13/10/8	23	33				Brown-grey, dry, medium dense, fine to coarse SAND, little fine gravel, trace silt, very few asphalt and brick particles/fragments, (Fill).	
5							75				
	3D	24/8	5.00 - 7.00	7/5/12/10	17	25				Brown-grey, dry, medium dense, fine to coarse SAND, some fine to coarse gravel, trace silt, very few brick and asphalt particles/fragments, (Fill).	A-1-a
							50				
10	4D	24/13	10.00 - 12.00	1/3/2/2	5	7				Grey, wet, medium stiff, SILT, some fine sand, very few wooden/organic fibers, (Wetland Deposit).	
15	5D	24/6	15.00 - 17.00	1/2/7/10	9	13				Grey, wet, stiff, sandy SILT, little fine to coarse gravel, very few wooden organic fibers, (Wetland Deposit). — 16.0	A-2-4
							115	56.5		Increase in roller cone resistance. Inferred Glacial Till encountered.	
							210	54.0		— 18.5	
	R1	10/2	19.30 - 20.13	RQD = 0%			N60			R1: Cobble Fragments: Grey, fine-grained, hard to very hard, fresh, (Glacial Till). R2: Cobble and Boulder Fragments: Grey, fine-grained, hard to very hard, fresh, (Glacial Till).	
	R2	15/14	20.10 - 21.35	RQD = 60%							
	R3	60/59	22.70 - 27.70	RQD = 77%			N60	49.8		— 22.7 Top of Bedrock at Elev. 49.80 ft. R3: Bedrock: Light grey-tan, fine to coarse-grained, GRANITE/MICA/GNIESS, medium hard to very hard, fresh to slightly weathered, vertical to slightly dipping, very close to close joints, (Waldoboro Pluton). Rock Mass Quality = Good R1: Core Times (min:sec) 22.7-23.7 feet (1:45) 23.7-24.7 feet (2:00) 24.7-25.7 feet (1:45) 25.7-26.7 feet (1:45) 26.7-27.7 feet (2:00)	UCT q_u= 7,133 psi
								44.8		— 27.7 Bottom of Exploration at 27.7 feet below ground surface	
30											
35											
40											
45											
50											

Remarks:
-Borehole backfilled with 9 bags of gravel and native soils.
-Pavement restored with asphalt cold patch.
-bgs = below ground surface
-Automatic Hanner ID# B-24.

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.

Page 1 of 1
Boring No.: BB-WHB-102

Maine Department of Transportation — Boring No.: BB-WHB-103

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 32 over Hoch Brook at Wagner No. 2 Bridge #2905
Location: Waldoboro, Maine

Boring No.: BB-WHB-103
WIN: 18230.00

Driller: New England Boring Contractors	Elevation (ft.): 72.5	Auger ID/OD:	3"/3.25"
Operator: T. Schaffer	Datum: NAVD-88	Sampler:	1-3/8" Split-Spoon
Logged By: K. Kocis (Nobis)	Rig Type: B-53 Mobile Truck	Hanner Wt./Fall:	140#/30"
Date Start/Finish: June 22, 2019/June 22, 2019	Drilling Method: Auger/Cased Wash Boring	Core Barrel:	N/A
Boring Location: STA 15+73.55, 7' RT	Casing ID/OD: 4"/4.5"	Water Level*:	5.6' ags
Hanner Efficiency Factor: 0.707	Hanner Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐	

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Field Vane Shear Test Attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hanner
WOR/C = Weight of Rods or Casing
WOP = Weight of Dre Person
T_v = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw Field SPT N-value
Hanner Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hanner Efficiency
N_{60} = (Hanner Efficiency Factor/60)*N-uncorrected
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows/6 in. Spoon Pen. Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							HSA			Asphalt (11.7").	
	1D	24/14	1.00 - 3.00	9/13/12/10	25	29		71.5		Brown-grey, dry, medium dense, fine to coarse SAND, little fine to coarse gravel, trace silt, few asphalt particles/fragments, (Fill). — 1.0	
	2D	24/12	3.00 - 5.00	5/6/6/5	12	14				Brown-grey, dry, medium dense, fine to coarse SAND, trace fine gravel, trace silt, very few asphalt particles/fragments, (Fill).	
5											
	3D	24/11	5.00 - 7.00	5/4/4/5	8	9	26			Brown, dry, loose, fine to coarse SAND, little fine gravel, trace silt, very few asphalt particles/ fragments, (Fill).	
	4D	24/12	7.00 - 9.00	4/2/1/1	3	4	12	64.7		4D-A (6.5'-thick) Brown, dry, very loose, fine to coarse SAND, little fine gravel, trace silt, (Fill). — 7.8	
	1MV						5			4D-B (5.5'-thick) Drsngish-brown-grey, moist-wet, soft, Clayey SILT, some fine to coarse sand, few wooden/ organic fibers, faint redoximorphic staining present, (Wetland Deposit).	
10	5D	24/10	9.00 - 11.00	3/1/1/1	2	2	7			Brownish-grey, wet, very soft, Clayey SILT, trace fine to medium sand, several organic fibers, (Wetland Deposit).	
	6D	24/15	11.00 - 13.00	WOH/WOH/WOH/3	0	0	2			6D-A(9'-thick) Brownish-grsy, wet, very soft, Clayey SILT, some fine to coarse sand, several organic fibers, (Wetland Deposit) .	
	2V			22.5			5	60.8		— 12.3	
	7D	24/24	13.00 - 15.00	WOH/WOH/1/2	1	1	PUSH			6D-B(6'-thick) Grey, wet, very soft, SILT & CLAY, (Glaciomarine).	
	3V			47						Grey-olive, wet, very soft, SILT & CLAY, (Glaciomarine).	
15	1U	24/23	15.00 - 17.00	PUSH			PUSH			Dark Grey, wet, Silty CLAY, trace fine sand, (Glaciomarine).	A-7-6, CL WC=49.2% LL=41 PL=20 PI=21 Cc=0.266 Cr=0.014
	8D	24/24	18.00 - 20.00	WOR/WOR/WOR/WOR	0	0	PUSH			Grey, wet, very soft, SILT & CLAY, (Glaciomarine).	
20	9D	24/9	20.00 - 22.00	9/8/11/14	19	22	25	52.5		Grey, wet, medium dense, SILT, some fine to coarse sand, trace fine to coarse gravel, trace clay, (Glacial Till). — 20.0	
							62				
							80				
							64				
							62				
25	10D	24/9	25.50 - 27.50	35/45/45/28	90	106				Grey, fine to coarse SAND, some silt, trace fine gravel, trace clay, (Glacial Till). Tip of sample with weathered rock present.	
								45.0		— 27.5 Bottom of Exploration at 27.5 feet below ground surface	
30											
35											
40											
45											
50											

Remarks:
-Borehole backfilled with 5 bags of gravel and native soils.
-Pavement restored with asphalt cold patch.
-bgs = below ground surface
-Automatic Hanner ID# B-19

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.

Page 1 of 1
Boring No.: BB-WHB-103

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00
WIN
18230.00
BRIDGE NO.2905

BRIDGE PLANS

		BY	DATE
PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8.19
CHECKED-REVIEWED	J. FRENCH	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8.19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

BORING LOGS (1 OF 2)

SHEET NUMBER
5
OF 22

Filename: ...\ustn\006_BoringLog_02.dgn Division: BRIDGE Username: Date:11/1/2019

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 32 over Hoch Brook at Wagner No. 2 Bridge #2905
Location: Waldoboro, Maine

Boring No.: BB-WHB-104
WIN: 18230.00

Driller:	New England Boring Contractors	Elevation (ft.): 72.5	Auger ID/OD: N/A
Operator:	T. Schaffer	Datum: NAVD-88	Sampler: 1-3/8" Split-Spoon
Logged By:	K. Kocis (Nobis)	Rig Type: B-53 Mobile Truck	Hanner Wt./Fall: 140#/30"
Date Start/Finish:	June 23, 2019/June 23, 2019	Drilling Method: Cased Wash Boring	Core Barrel: N/A
Boring Location:	STA 15+81.05, 7' LT	Casing ID/OD: 4"/4.5"	Water Level*: 7.6' bgs
Hanner Efficiency Factor: 0.707		Hanner Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Field Vane Shear Test Attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hanner
WOR/C = Weight of Rods or Casing
WOP = Weight of Dre Person
T_{uv} = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$T_{uv(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw Field SPT N-value
Hanner Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hanner Efficiency
N_{60} = (Hanner Efficiency Factor/60)*N-uncorrected
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Spoon Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							RC	71.6		Asphalt (11").	
	1D	3/3	2.20 - 2.45	50	>100			71.1		Grab sample: Brown-grey, dry, fine to coarse GRAVEL and fine to coarse SAND, trace silt, (Fill).	0.9
								69.3		Light grey, dry, concrete fragments/pieces, (Concrete). Rebar present at approximately 3 feet bgs.	3.2
5								65.0		Hoch Brook Water Table at approximately 7.5 feet bgs.	7.5
								63.5		Encountered concrete slab at bottom of concrete culvert, (Concrete).	9.0
10							RC	62.9		Timber platform encountered at approximately 10 feet bgs, with wood pieces/fragments encountered in wash cuttings, (Wood).	10.0
	2D	7/5	11.00 - 11.58	45/50	100	118		60.4		Orange-brown, wet, very dense, wood pieces/fibers, (Wood).	
	3D	24/3	13.00 - 15.00	2/2/2/2	4	5		60.4		Thin layer (approximately 3 to 4"-thick) of Wetland Deposit encountered with trace organics.	12.1
15										Grey, wet, soft, SILT & CLAY, trace fine to medium sand, several wood fibers, (Glaciomarine).	12.4
	4D	24/15	15.00 - 17.00	WOH/WOH/WOH/WOH	0	0				Grey, wet, very soft, SILT & CLAY, (Glaciomarine).	
	1V			20							
20								52.5		Grey, wet, very dense, SILT, little fine to coarse sand, trace fine gravel, trace clay, (Glacial Till).	20.0
	5D	24/9	20.00 - 22.00	15/32/48/16	80	94		50.5		Bottom of Exploration at 22.0 feet below ground surface.	22.0
25											

Remarks:
-Borehole grouted to bottom of existing concrete culvert, in addition grouted culvert penetrations.
-bgs = below ground surface.
-Automatic Hanner ID# D-19.

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.

Page 1 of 1

Boring No.: BB-WHB-104

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 32 over Hoch Brook at Wagner No. 2 Bridge #2905
Location: Waldoboro, Maine

Boring No.: BB-WHB-105
WIN: 18230.00

Driller:	New England Boring Contractors	Elevation (ft.): 73	Auger ID/OD: 3"/3.25"
Operator:	T. Schaffer	Datum: NAVD-88	Sampler: 1-3/8" Split-Spoon
Logged By:	K. Kocis (Nobis)	Rig Type: B-53 Mobile Truck	Hanner Wt./Fall: 140#/30"
Date Start/Finish:	June 23, 2019/June 24, 2019	Drilling Method: Auger/Cased Wash Boring	Core Barrel: N/A
Boring Location:	STA 15+45.75, 6' LT	Casing ID/OD: 4"/4.5"	Water Level*: 9.8' bgs
Hanner Efficiency Factor: 0.707		Hanner Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Field Vane Shear Test Attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hanner
WOR/C = Weight of Rods or Casing
WOP = Weight of Dre Person
T_{uv} = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$T_{uv(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw Field SPT N-value
Hanner Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hanner Efficiency
N_{60} = (Hanner Efficiency Factor/60)*N-uncorrected
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Spoon Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							HSA	72.1		Asphalt (11").	
	1D	24/8	1.00 - 3.00	20/24/18/11	41	48		71.2		Black-brown, dry, dense, fine to coarse SAND, little fine gravel, trace silt, several asphalt particles/fragments, (Fill).	0.9
								69.0			4.0
5	2D	24/24	5.00 - 7.00	WOH/2/2/2	4	5	PUSH			Brownish-grey, dry-moist, soft, Clayey SILT, little fine to medium sand, few wood/peat pieces/fibers, (Wetland Deposit).	A-4, CL wc=28.8% LL=27 PL=19 PI=8
								63.5			9.5
10	3D	24/21	10.00 - 12.00	5/5/4/5	9	11	PUSH			Grey, wet, stiff, SILT & CLAY, faint redoxinorphic staining present, (Glaciomarine).	
	MV			>50			PUSH				
15	4D	24/23	15.00 - 17.00	WOH/1/2/2	3	4	PUSH			Grey, wet, very soft, SILT & CLAY, (Glaciomarine).	
							PUSH				
20	5D	24/21	20.00 - 22.00	WOR/WOH/WOH/WOH	0	0	PUSH	51.0		Grey, wet, very soft, SILT & CLAY, trace fine to medium sand, (Glaciomarine).	22.0
							120	49.9		No Recovery, (Glacial Till).	23.1
	6D	0/0	23.00 - 23.00	50	>100					Bottom of Exploration at 23.1 feet below ground surface.	
25											

Remarks:
-Borehole backfilled with 6 bags of gravel and native soils.
-Pavement restored with asphalt cold patch.
-bgs = below ground surface.
-Automatic Hanner ID# D-19.

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.

Page 1 of 1

Boring No.: BB-WHB-105

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 32 over Hoch Brook at Wagner No. 2 Bridge #2905
Location: Waldoboro, Maine

Boring No.: BB-WHB-107
WIN: 18230.00

Driller:	New England Boring Contractors	Elevation (ft.): 72.5	Auger ID/OD: 3"/3.25"
Operator:	T. Schaffer	Datum: NAVD-88	Sampler: 1-3/8" Split-Spoon
Logged By:	K. Kocis (Nobis)	Rig Type: B-53 Mobile Truck	Hanner Wt./Fall: 140#/30"
Date Start/Finish:	June 24, 2019/June 24, 2019	Drilling Method: Auger/Cased Wash Boring	Core Barrel: N/A
Boring Location:	STA 16+05.80, 7' LT	Casing ID/OD: 4"/4.5"	Water Level*: 9.8' bgs
Hanner Efficiency Factor: 0.707		Hanner Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Field Vane Shear Test Attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hanner
WOR/C = Weight of Rods or Casing
WOP = Weight of Dre Person
T_{uv} = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$T_{uv(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw Field SPT N-value
Hanner Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hanner Efficiency
N_{60} = (Hanner Efficiency Factor/60)*N-uncorrected
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Spoon Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							HSA	71.5		Asphalt (12").	
	1D	24/12	1.00 - 3.00	15/19/14/12	33	39		70.5		Black-brown-grey, dry, dense, fine to coarse SAND, trace fine gravel, trace silt, several asphalt particles/fragments, (Fill).	1.0
5	2D	24/12	5.00 - 7.00	5/4/3/3	7	8	25			Brown-grey, dry, loose, fine to coarse SAND, trace fine gravel, trace silt, very few asphalt fragments, (Fill).	
	3D	24/0.5	9.00 - 11.00	WOH/WOH/2/2	2	2	PUSH	63.5		No recovery. Tip containing Brown Clayey SILT, (Wetland Deposit).	9.0
10											12.0
	V			25			PUSH	60.5			
	4D	24/23	13.00 - 15.00	WOH/WOH/WOH/WOH	0	0	PUSH			Grey, wet, very soft, SILT & CLAY, trace fine sand, (Glaciomarine).	
15	1U	24/21	15.00 - 17.00	PUSH			PUSH			Grey, wet, SILT & CLAY, little fine to coarse sand, trace fine gravel, (Glaciomarine).	
	5D	24/21	17.00 - 19.00	WOR/WOH/1/11	1	1	PUSH	54.3		50-A(9"-thick) Grey, wet, very soft, SILT & CLAY, trace fine to sand, (Glaciomarine).	
										50-B(8"-thick) Grey, wet, very loose, SILT, some fine to medium sand, trace fine to coarse gravel, trace clay, (Glacial Till).	18.2
20	6D	24/8	20.00 - 22.00	10/16/19/21	35	41	120			Grey, wet, dense, fine to coarse GRAVEL, some fine to coarse sand, some silt, (Glacial Till).	
								49.4		Bottom of Exploration at 23.1 feet below ground surface.	23.1
25											

Remarks:
-Borehole backfilled with 6 bags of gravel and native soils.
-Pavement restored with asphalt cold patch.
-bgs = below ground surface.
-Automatic Hanner ID# D-19.

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.

Page 1 of 1

Boring No.: BB-WHB-107

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN
18230.00

BRIDGE NO.2905

BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	J. FRENCH	-	8\19
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

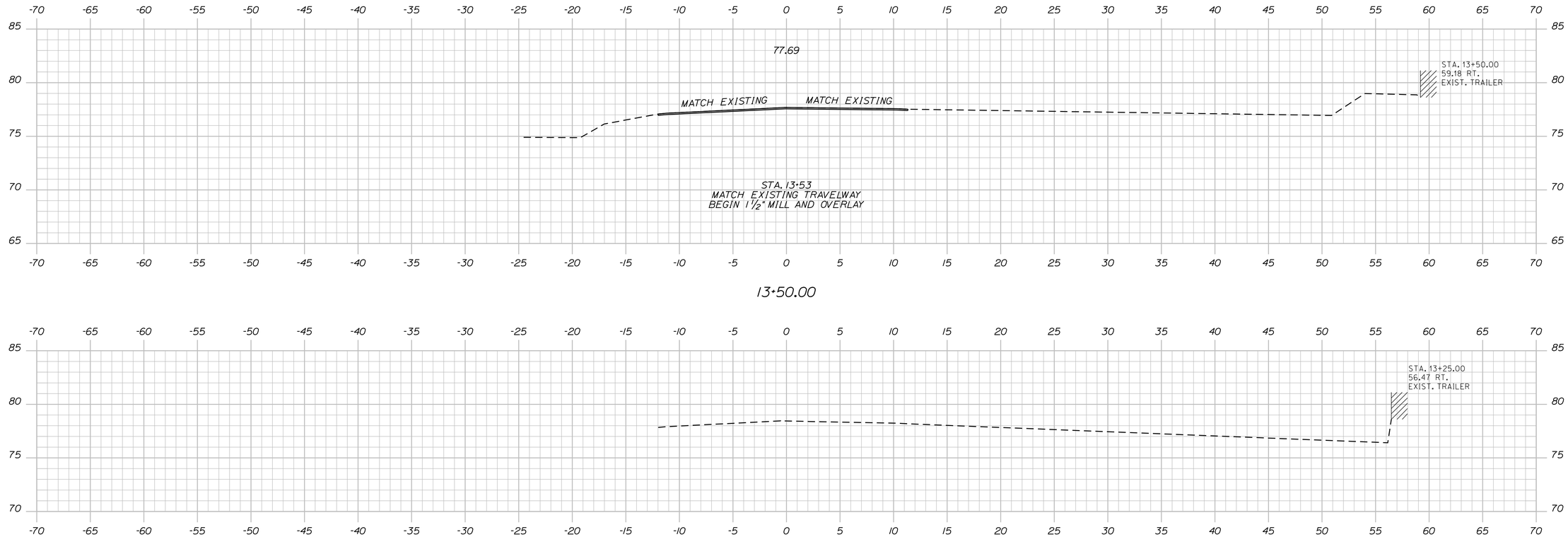
P.E. NUMBER

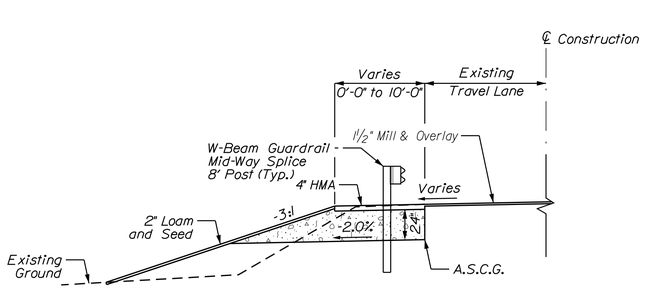
DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

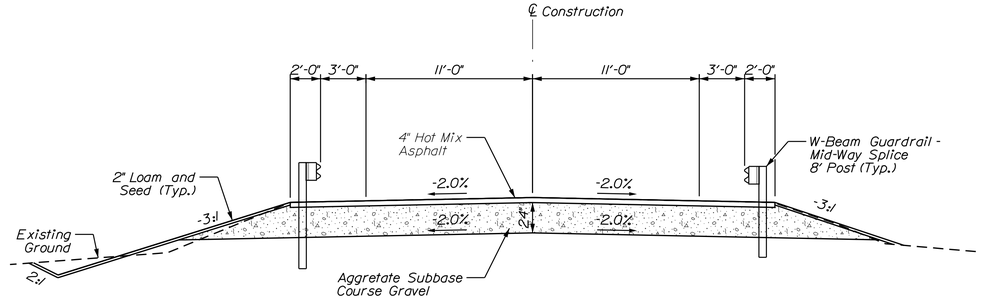
BORING LOGS (2 OF 2)

SHEET NUMBER
6
OF 22





ROADWAY WIDENING
STA. 13+53 - STA. 13+75 RT
STA. 18+00 - STA. 18+50 LT



TYPICAL APPROACH SECTION

Sta. 13+00.00 to Sta. 13+50.00

Filename: ...\ustn\007_XSECT_13+00_001.dgn Username: Division: BRIDGE Date:11/1/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	M. G. SMITH	8\19
DESIGN2-DETAILED2	E. MALONEY	-	-
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

SHEET NUMBER

7

OF 22

14+25.00

14+00.00

13+75.00

Sta. 13+75.00 to Sta. 14+25.00

Filename: ...\ustn\008_XSECT_13+75_002.dgn Division: BRIDGE Username: Date:11/1/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

		BY	DATE
PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

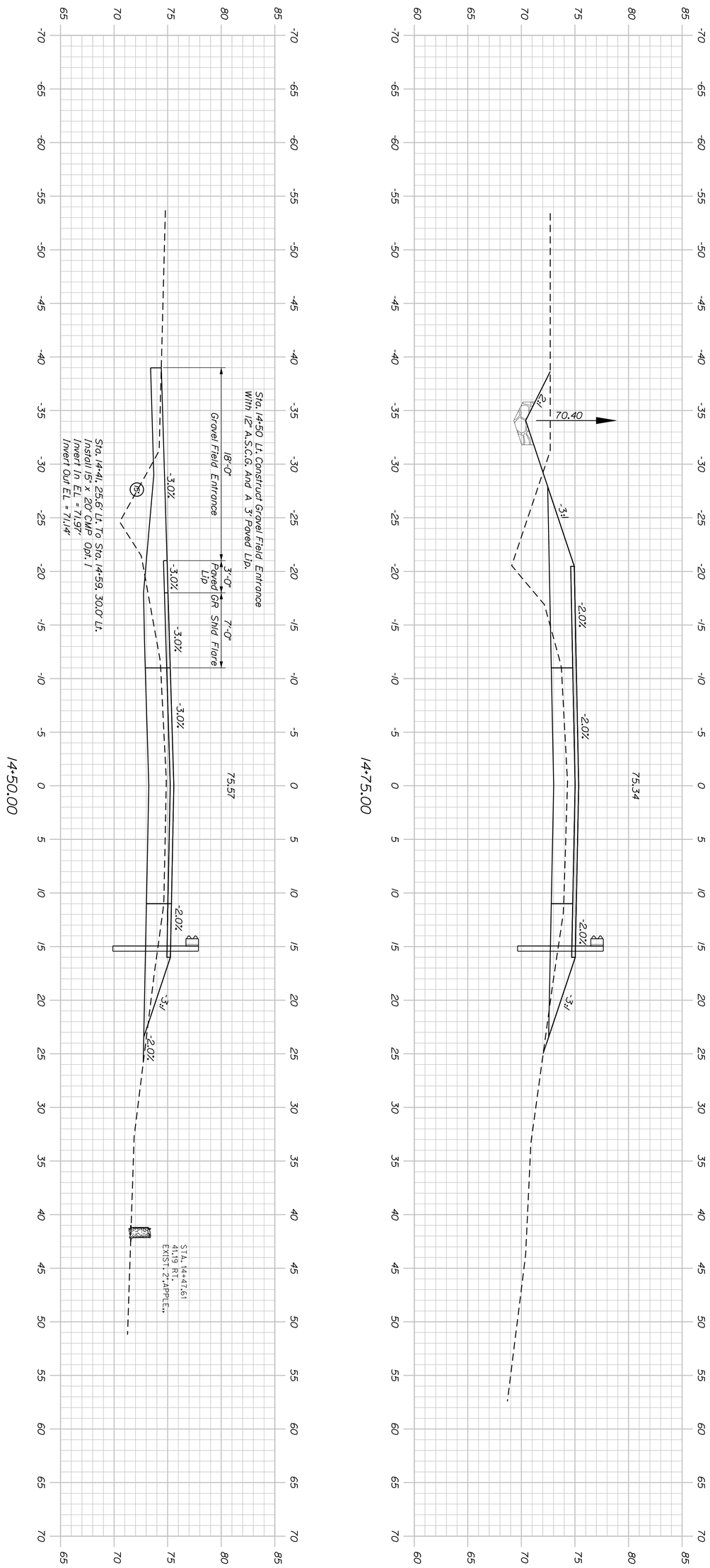
CROSS SECTIONS

SHEET NUMBER

8

OF 22

Sta. 14+50.00 to Sta. 14+75.00



PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-		-
REVISIONS 2	-		-
REVISIONS 3	-		-
REVISIONS 4	-		-
FIELD CHANGES	-		-

SIGNATURE

P.E. NUMBER

DATE

SHEET NUMBER 9 OF 22

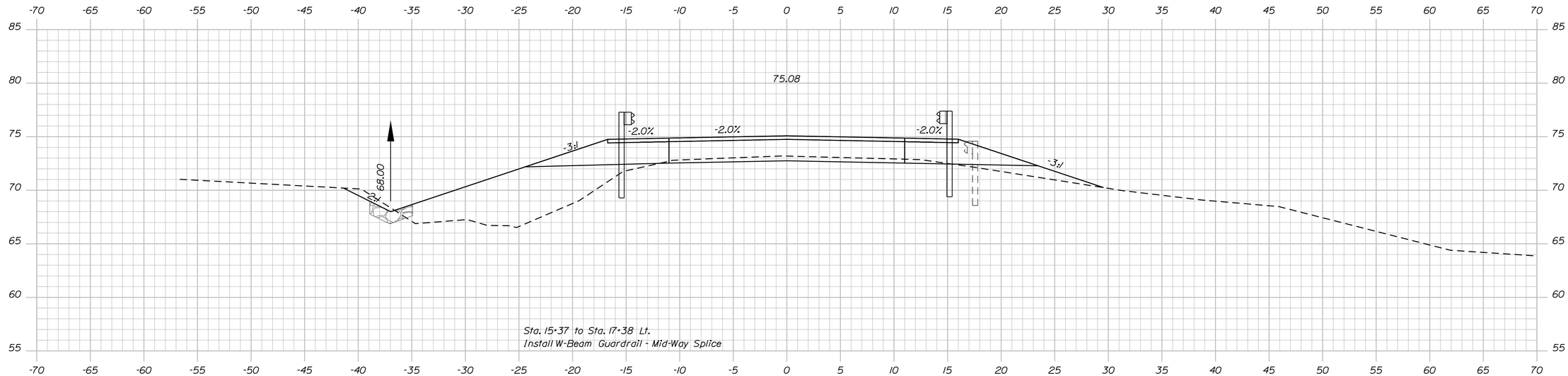
WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

BRIDGE NO.2905 WIN 18230.00 BRIDGE PLANS



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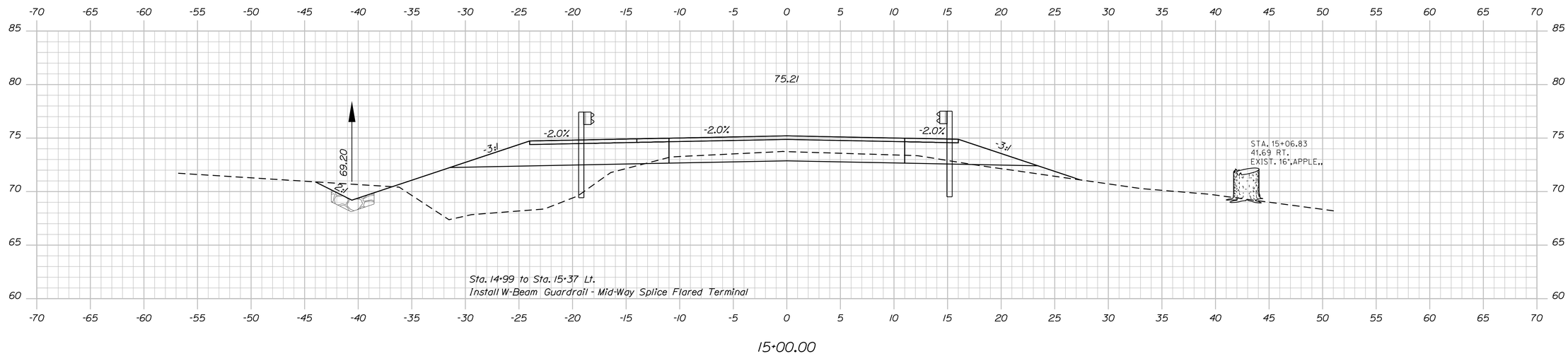

15+00.00

Sta. 15+00.00 to Sta. 15+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

SHEET NUMBER

10

OF 22

Date:11/1/2019 Username: Division: BRIDGE Filename: ...\ustn\010_XSECT_15+00_004.dgn

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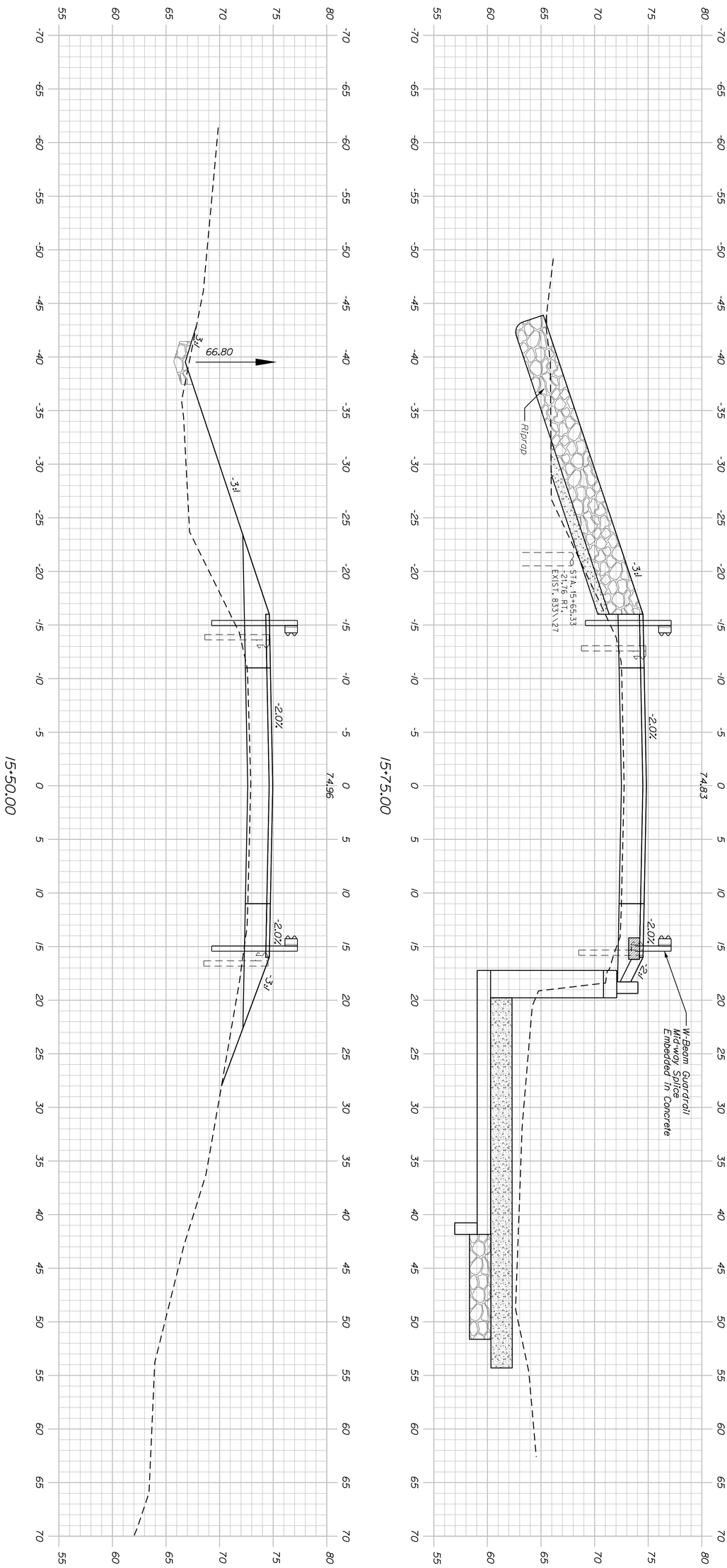


PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-		-
REVISIONS 2	-		-
REVISIONS 3	-		-
REVISIONS 4	-		-
FIELD CHANGES	-		-

SIGNATURE

P.E. NUMBER

DATE

SHEET NUMBER 11 OF 22

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

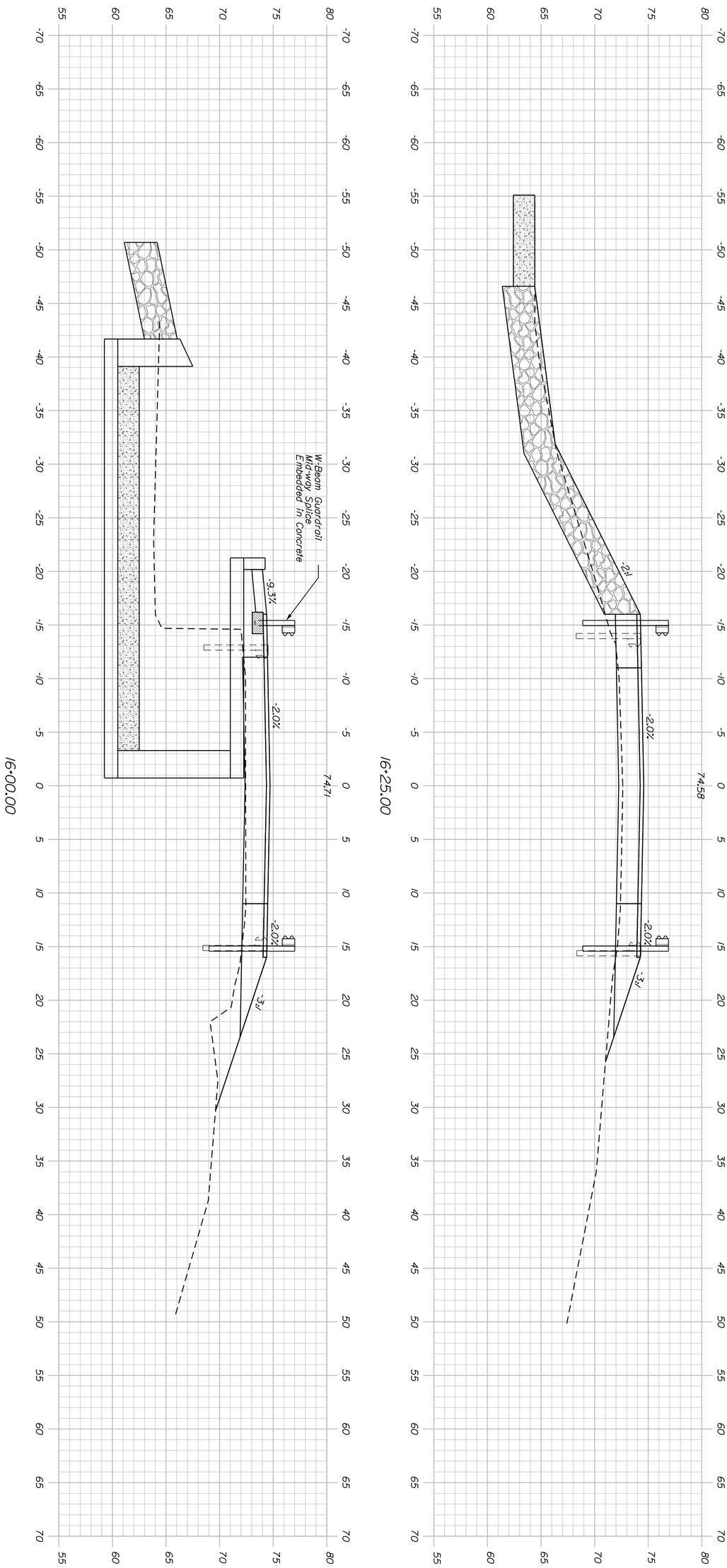
CROSS SECTIONS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

BRIDGE NO.2905 WIN 18230.00 BRIDGE PLANS

Sta. 16+00.00 to Sta. 16+25.00



WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-		-
REVISIONS 2	-		-
REVISIONS 3	-		-
REVISIONS 4	-		-
FIELD CHANGES	-		-

SIGNATURE

P.E. NUMBER

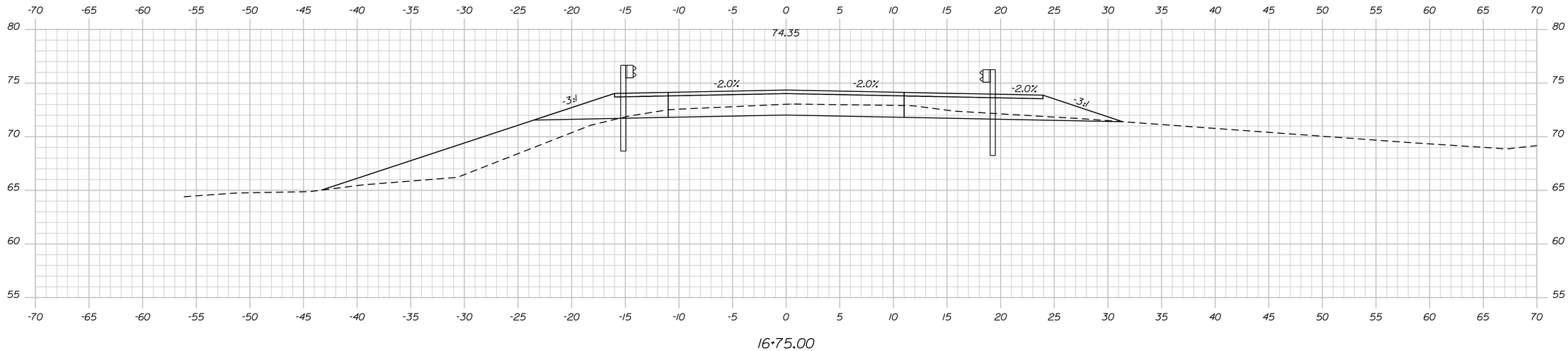
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

BRIDGE NO.2905 WIN 18230.00 BRIDGE PLANS

SHEET NUMBER 12 OF 22



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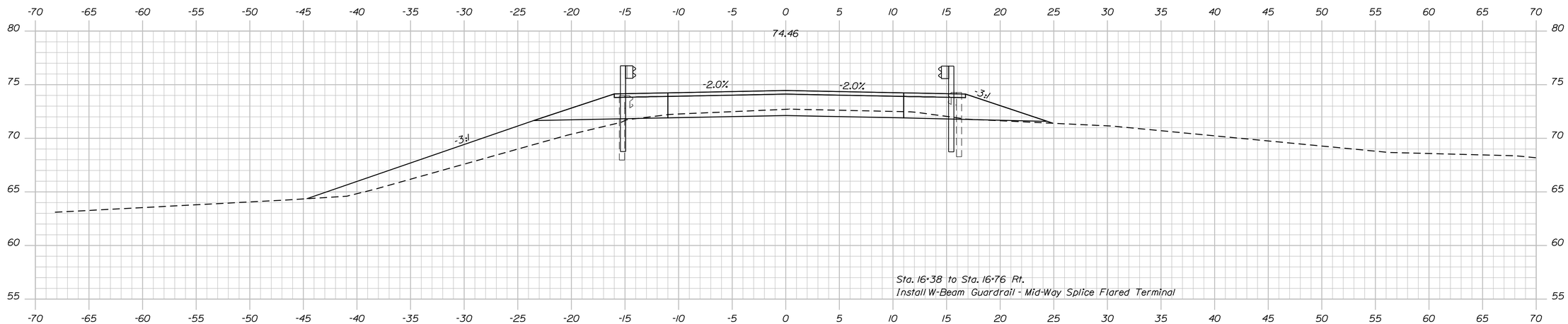

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Sta. 16+50.00 to Sta. 16+75.00

Filename: ...\ustn\013_XSECT_16+50_007.dgn Division: BRIDGE Username: Date:11/1/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905 BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
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FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

SHEET NUMBER

13

OF 22

17+25.00

17+00.00

Sta. 17+00.00 to Sta. 17+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH 8\19
CHECKED-REVIEWED	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH 8\19
DESIGN3-DETAILED3	-	-
REVISIONS 1	-	-
REVISIONS 2	-	-
REVISIONS 3	-	-
REVISIONS 4	-	-
FIELD CHANGES	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

SHEET NUMBER

14

OF 22

Filename: ...\ustn\014_XSECT_17+00_008.dgn Division: BRIDGE Username: Date:11/1/2019

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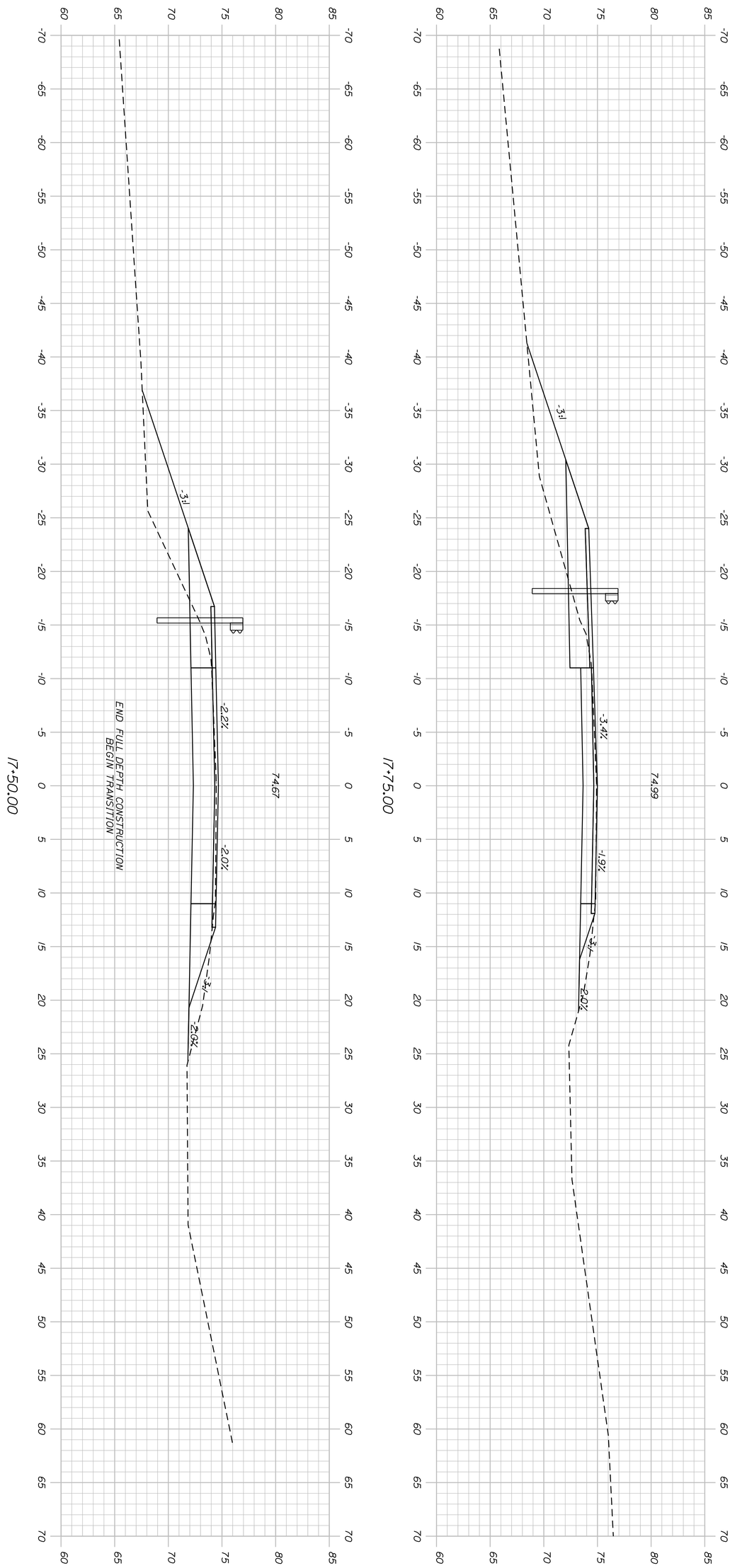

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
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DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-		-
REVISIONS 2	-		-
REVISIONS 3	-		-
REVISIONS 4	-		-
FIELD CHANGES	-		-

SIGNATURE

P.E. NUMBER

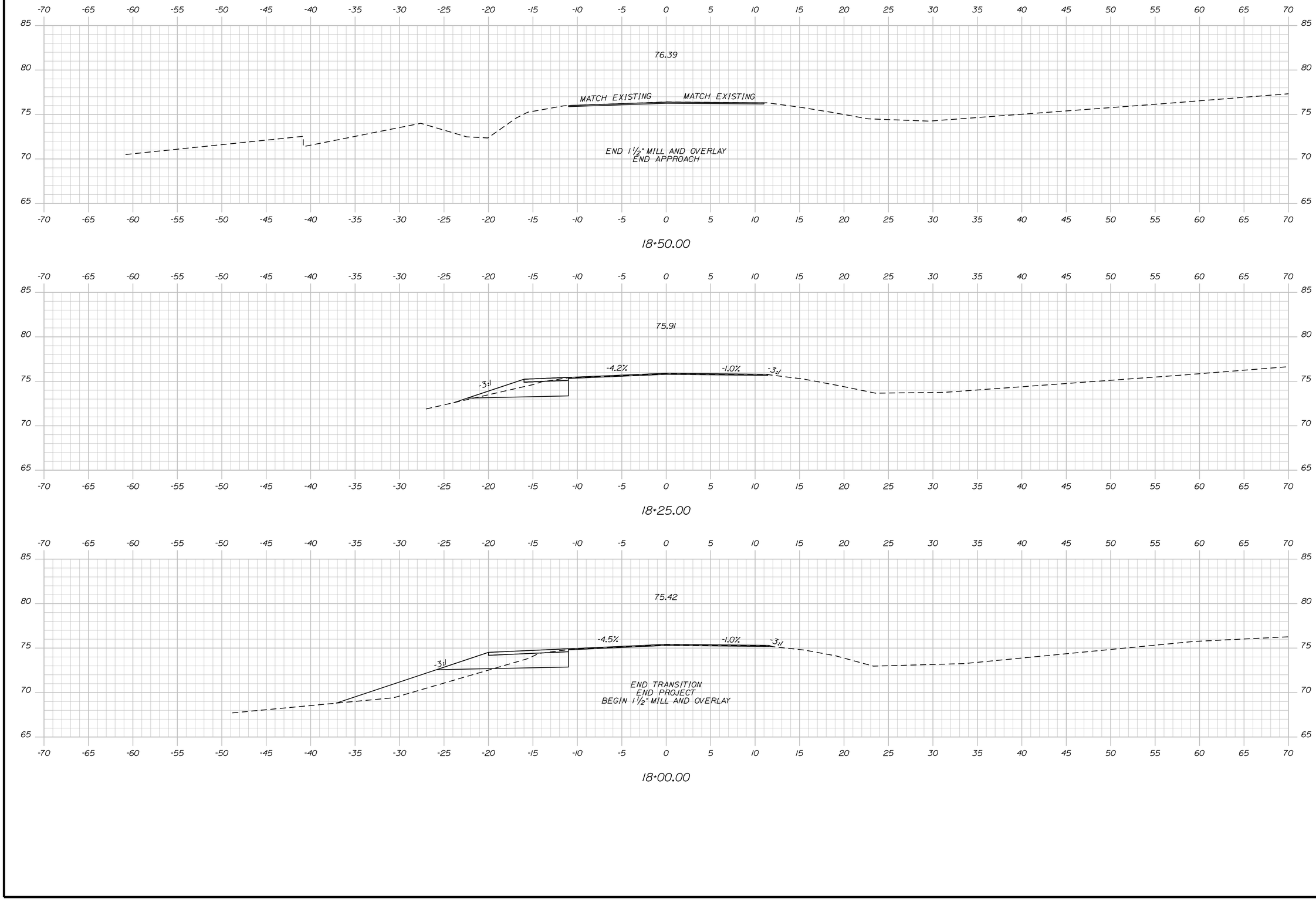
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

BRIDGE NO.2905 WIN 18230.00 BRIDGE PLANS

SHEET NUMBER 15 OF 22



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Filename: ...\vustn\016_XSECT_18+00_010.dgn Division: BRIDGE Username: Date:11/1/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

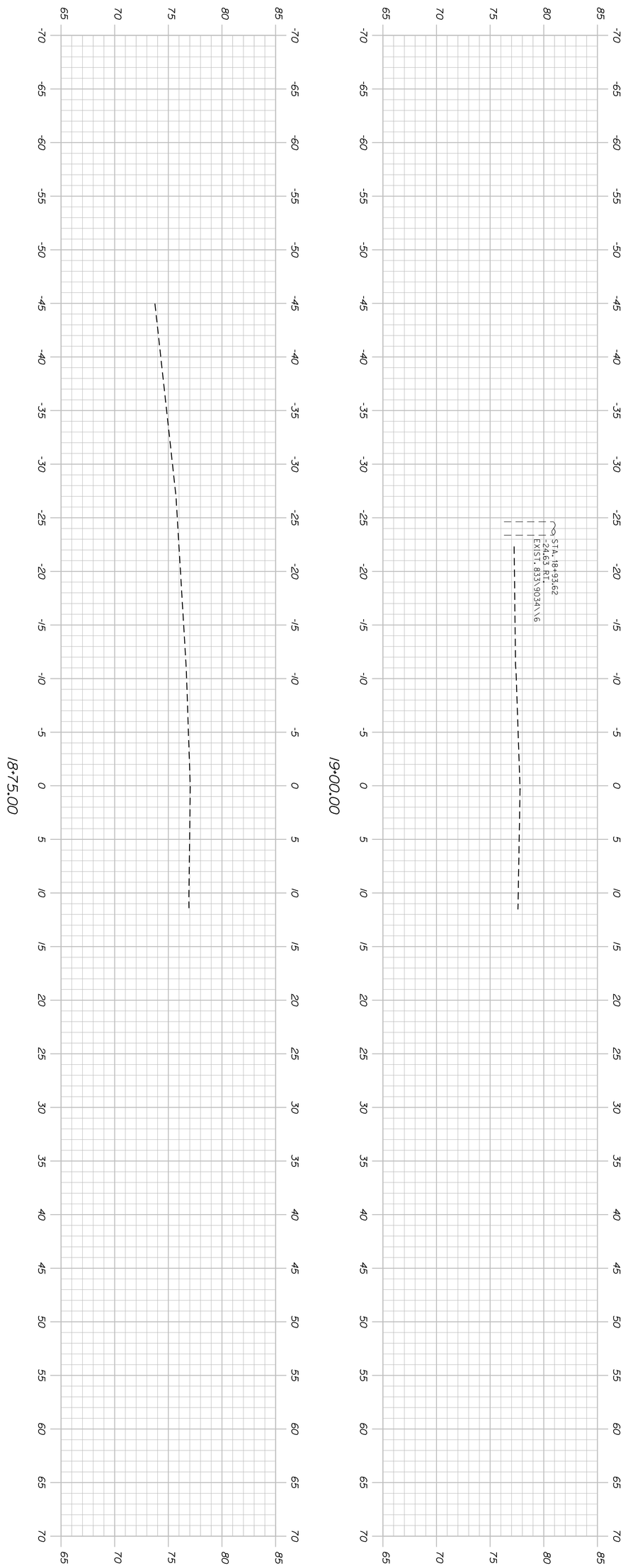
CROSS SECTIONS

SHEET NUMBER

16

OF 22

Sta. 18+75.00 to Sta. 19+25.00



WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

CROSS SECTIONS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	-	-	-
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-		-
REVISIONS 2	-		-
REVISIONS 3	-		-
REVISIONS 4	-		-
FIELD CHANGES	-		-

SIGNATURE

P.E. NUMBER

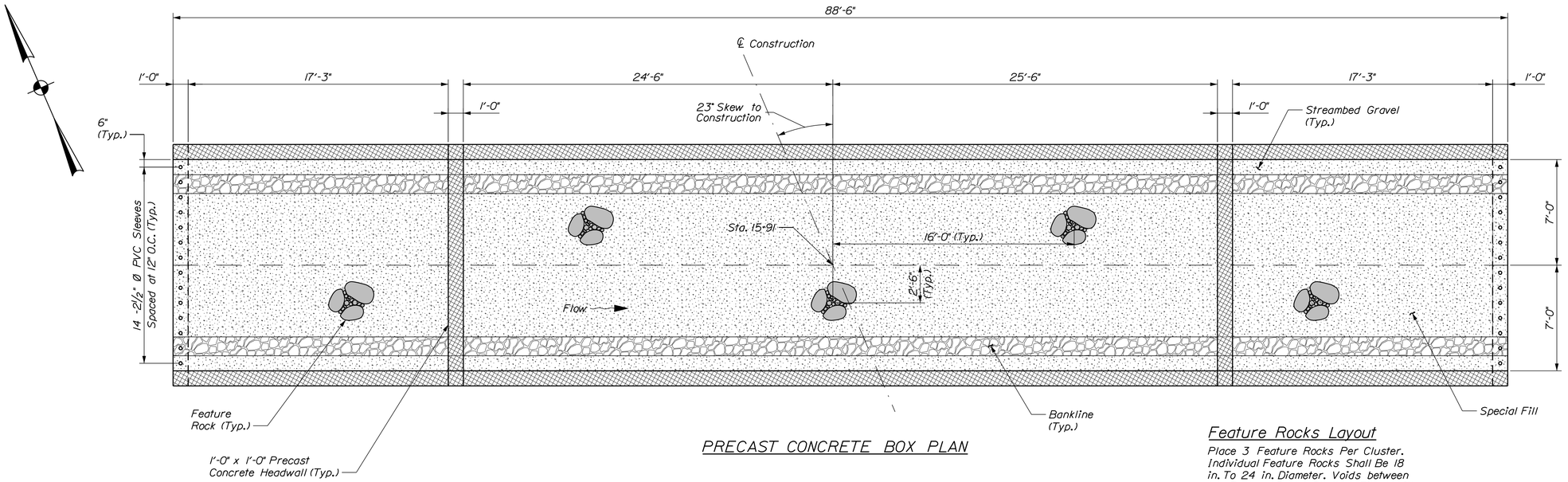
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

BRIDGE NO.2905 WIN 18230.00 BRIDGE PLANS

SHEET NUMBER 17 OF 22



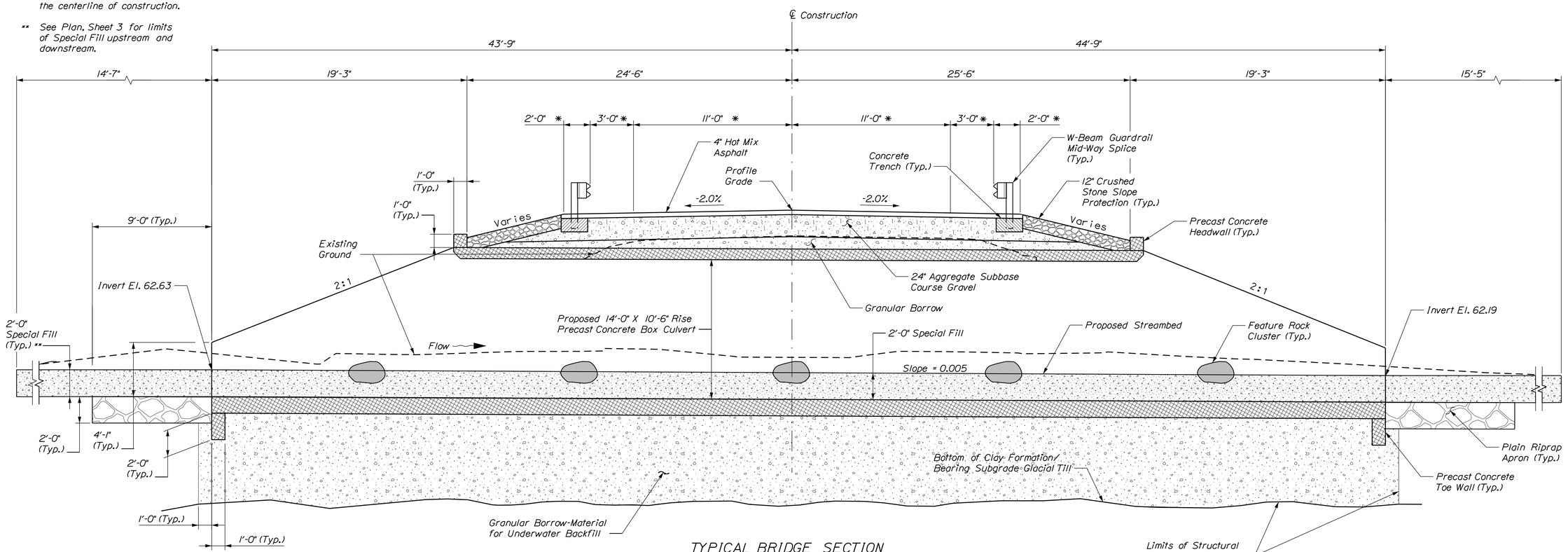
PRECAST CONCRETE BOX PLAN

Feature Rocks Layout

Place 3 Feature Rocks Per Cluster. Individual Feature Rocks Shall Be 18 in. To 24 in. Diameter. Voids between the Feature Rocks Shall be Filled with Smaller Stones of Varying Gradations.

* Dimensions and grades shown are measured perpendicular to the centerline of construction.

** See Plan, Sheet 3 for limits of Special Fill upstream and downstream.



TYPICAL BRIDGE SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	A. GIRALDI	8\19
CHECKED-REVIEWED	J. FRENCH	-
DESIGN2-DETAILED2	E. MALONEY	8\19
DESIGN3-DETAILED3	-	-
REVISIONS 1	-	-
REVISIONS 2	-	-
REVISIONS 3	-	-
REVISIONS 4	-	-
FIELD CHANGES	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

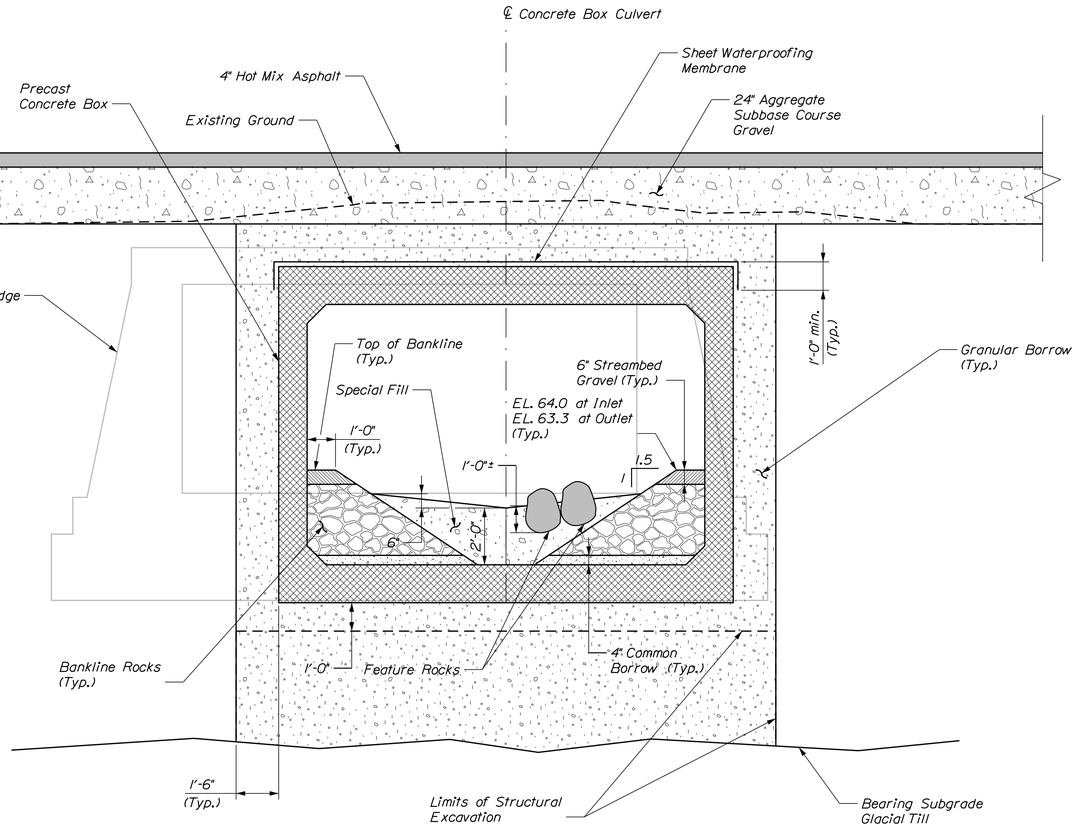
PRECAST CONCRETE BOX DETAILS (1 OF 2)

SHEET NUMBER

18

OF 22

Filename: ...\Bentley\ustn\019_Btypical.dgn Username: Division: BRIDGE Date:11/1/2019



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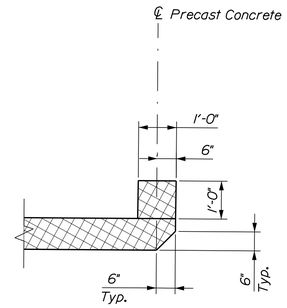
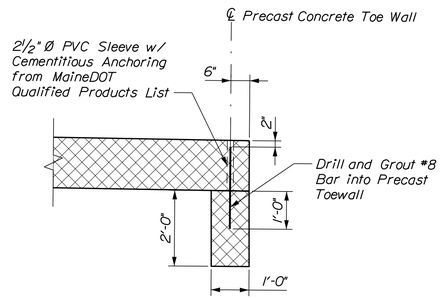


PRECAST CONCRETE HEADWALL DETAIL



PRECAST CONCRETE TOEWALL DETAIL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905 BRIDGE PLANS

		BY	DATE
PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	A. GIRALDI	M. W. SMITH	8\19
CHECKED-REVIEWED	J. FRENCH	-	8\19
DESIGN2-DETAILED2	E. MALONEY	M. G. SMITH	8\19
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

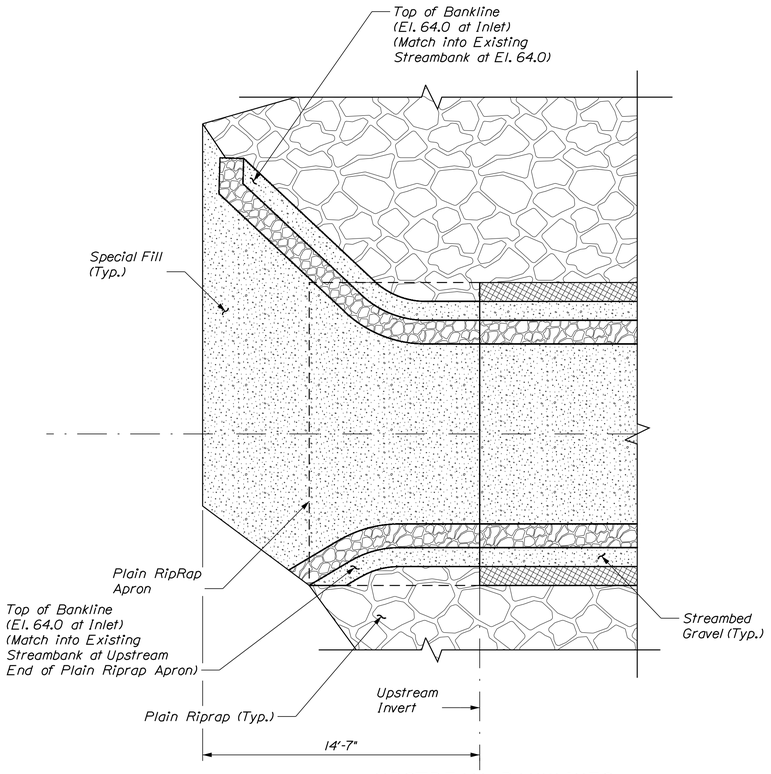
DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

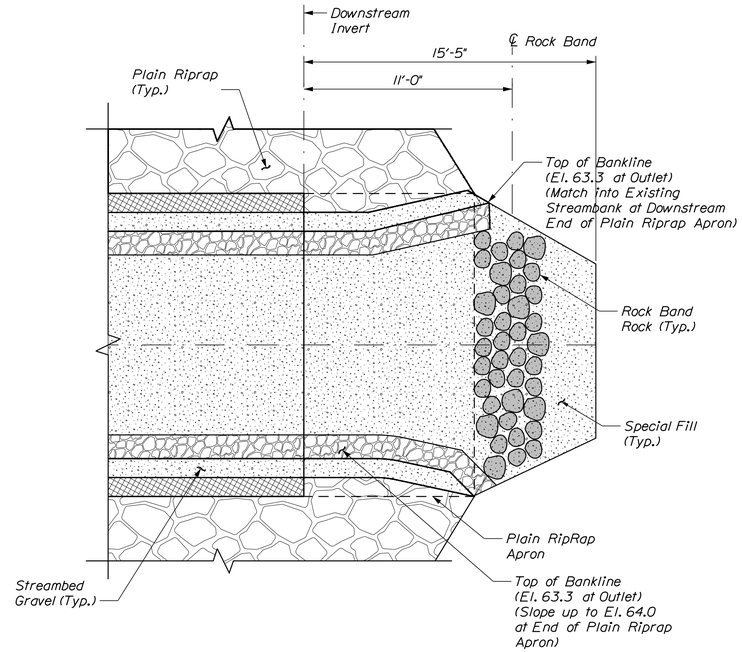
PRECAST CONCRETE BOX DETAILS (2 OF 2)

SHEET NUMBER
19
OF 22

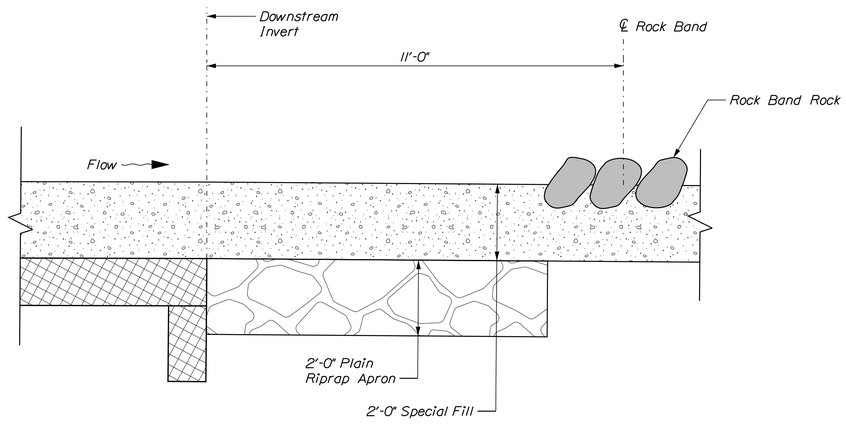
Filename: ...\Bentley\ustn\020_Precast.dgn Division: BRIDGE Username: Date:11/1/2019



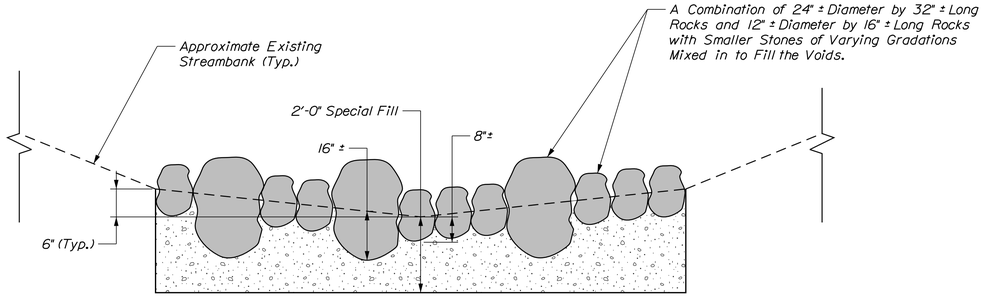
UPSTREAM BANKLINES



DOWNSTREAM BANKLINES



ROCK BAND DETAIL



ROCK BAND SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	S. BEAUMONT	M. W. SMITH	8\19
CHECKED-REVIEWED	A. GIRALDI	J. FRENCH	8/19
DESIGN2-DETAILED2	-	-	-
DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

STREAM SIMULATION DETAILS

SHEET NUMBER

20

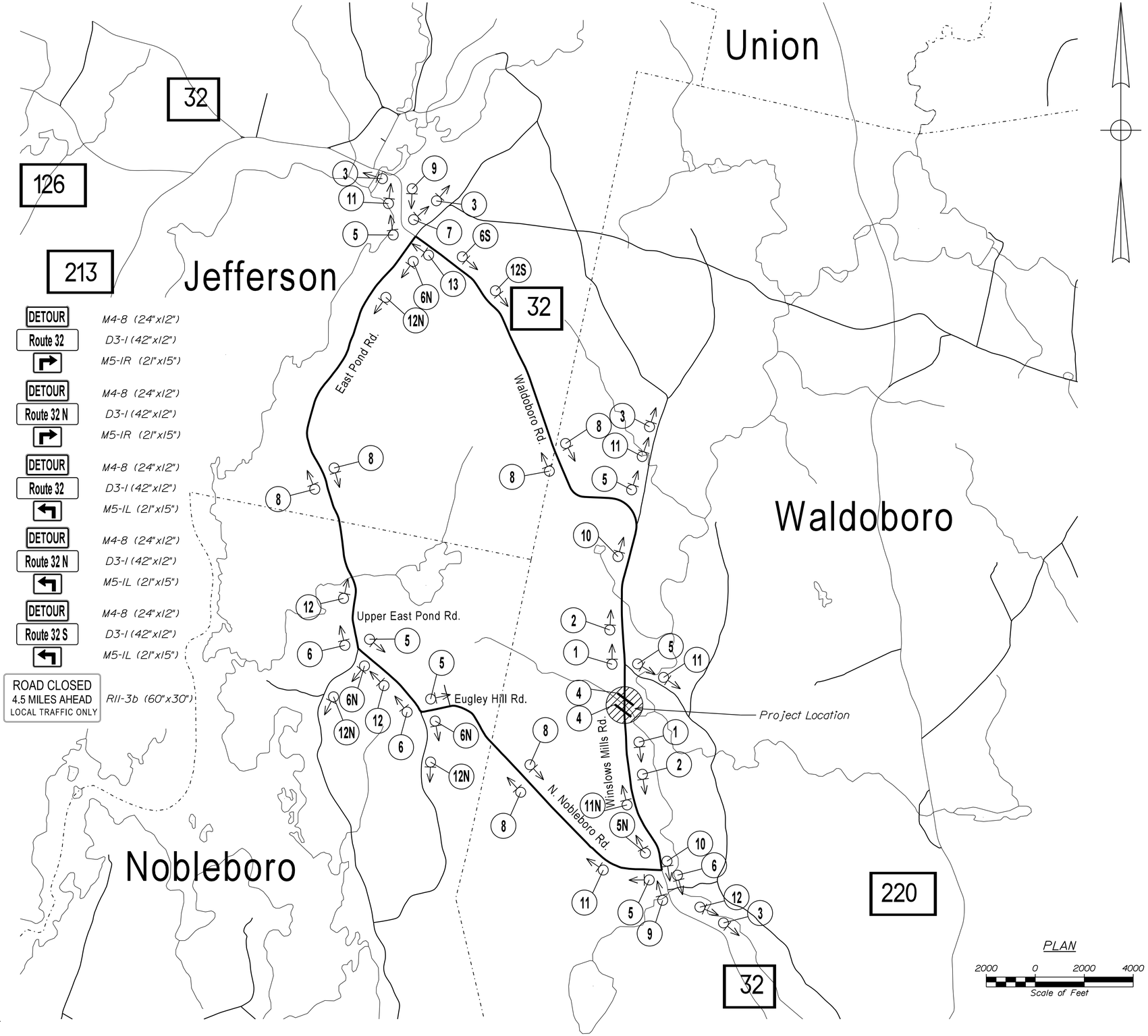
OF 22

Filename: ...\021_Precast_Cobble Bar.dgn Division: BRIDGE Username: Date:11/1/2019

1	ROAD CLOSED 500 FT.	W20-4 (36"x36")
2	ROAD CLOSED 1000 FT.	W20-4 (36"x36")
3	DETOUR AHEAD	W20-2 (36"x36")
4	ROAD CLOSED (TYPE III BARRICADE / TYPE III BARRICADE)	RII-2 (48"x30")
5	DETOUR / Route 32 →	M4-8 (24"x12") / D3-1 (42"x12") / M6-3 (21"x15")
5N	DETOUR / Route 32 N →	M4-8 (24"x12") / D3-1 (42"x12") / M6-3 (21"x15")
6	DETOUR / Route 32 ←	M4-8 (24"x12") / D3-1 (42"x12") / M6-3 (21"x15")
6N	DETOUR / Route 32 N ←	M4-8 (24"x12") / D3-1 (42"x12") / M6-3 (21"x15")
6S	DETOUR / Route 32 S ←	M4-8 (24"x12") / D3-1 (42"x12") / M6-3 (21"x15")
7	DETOUR / Route 32 ↑	M4-8 (24"x12") / D3-1 (42"x12") / M6-3 (21"x15")
8	DETOUR / Route 32	M4-8 (24"x12") / D3-1 (42"x12")
9	END DETOUR	M4-8 (24"x12")
10	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY	RII-3b (60"x30")
11	DETOUR / Route 32 →	M4-8 (24"x12") / D3-1 (42"x12") / M5-IR (21"x15")
11N	DETOUR / Route 32 N →	M4-8 (24"x12") / D3-1 (42"x12") / M5-IR (21"x15")
12	DETOUR / Route 32 ←	M4-8 (24"x12") / D3-1 (42"x12") / M5-IL (21"x15")
12N	DETOUR / Route 32 N ←	M4-8 (24"x12") / D3-1 (42"x12") / M5-IL (21"x15")
12S	DETOUR / Route 32 S ←	M4-8 (24"x12") / D3-1 (42"x12") / M5-IL (21"x15")
13	ROAD CLOSED 4.5 MILES AHEAD LOCAL TRAFFIC ONLY	RII-3b (60"x30")

DETOUR NOTES:

1. SPACING TO BE DETERMINED BY THE RESIDENT IN ACCORDANCE WITH MUTCD.
2. OTHER SIGNS MAY BE NEEDED AS DIRECTED BY THE RESIDENT.
3. CONFLICTING DIRECTIONAL AND ROUTE SIGNS SHALL BE COVERED.
4. PLACE ADVANCED WARNING SIGNS PER SPECIAL PROVISION 652.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

18230.00

WIN 18230.00

BRIDGE NO.2905

BRIDGE PLANS

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DESIGN3-DETAILED3	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	SIGNATURE	-
		P.E. NUMBER	-
		DATE	-

WAGNER NO. 2 BRIDGE
HOCH BROOK
WALDOBORO LINCOLN COUNTY

DETOUR PLAN

SHEET NUMBER
21
OF 22

Filename: ...\ustn\018_DetourPlan.dgn Division: BRIDGE Username: Date:11/1/2019

PLAN LEGEND

Town, County, State		New R/W Along Existing R/W		Sanitary Sewer		Traveled Way	
Approx. Property Lines — P.L. —		Building	Clearing Limit Line — CLL —	Telephone Line		Ditch	
Existing Right of Way		Trees Conifer	Deciduous	Electric Line		Catch Basin	
Limits of Wrought Portion — L.O.W.P. —		Tree Line	Bush Line	Water Line		Manhole	
Control Of Access — C.O.A. —		Water Edge		Underdrain Line		Sewer Manhole	
New Right of Way		Ledge	Rock/Boulder	Gas Line		Utility Pole	
New Easement		Fence CHAIN LINK	BARB WIRE	Guardrail		Fire Hydrant	
New Temporary Rights		Sign	Well WELL	Culvert		Curbing	
New R/W Within Existing R/W			Mailbox				

Existing	Proposed
	T
	E
	W
	G

Existing	Proposed

Cut Line C — C — C Fill Line F — F — F
Stonewall Retaining Wall
Baseline 10+00 11+00 12+00
Monument Traverse Point
Iron Rod Found ● IRF Pipe Found ● IPF
Replacement Pin Set ⊙

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 ABUTTING PROPERTY OWNERS.

25 0 25 50 75 100
Scale of Feet

GRID
HORIZONTAL DATUM-US STATE PLANE NAD83 (2011)
ZONE-MAINE 2000 CENTRAL
VERTICAL DATUM-NAVD 88
COMBINED FACTOR- 0.999987255

SURVEY FOR ELMER AND LOIS HOCH
BY JOHN H. MATHIESON
DATED: OCTOBER 14, 1998
L.C.R.D.
PLAN BOOK 65, PAGE 9

ELMER R. HOCH, JR.
ITEM NO. (1)
SLOPE EASE. = 1995± S.F. (1)
DRAINAGE EASE. = (1)
TOTAL AREA = 225± AC. (TAX MAP)

THOMAS E. VANNAH
ITEM NO. (3)
DRAINAGE EASE. = (1)
CONST. & MAINT. EASE. = 1694± S.F. (1)
TEMP. CONST. RIGHTS = 724± S.F. (1)
TOTAL AREA = 8.3± AC. (TAX MAP)

ELMER R. HOCH, JR.
PARCEL NO. (5)
LAND TAKEN = 1765 S.F. (PRESC. EASE.)
LAND TAKEN = 578± S.F. (OTHER)
TOTAL LAND TAKEN = 0.05± AC.
TEMP. CONST. RIGHTS = 0.06± AC. (1)
TOTAL AREA = 225± AC. (TAX MAP)
REM. AREA = 224.95± AC.

HOCH BROOK
a/k/a WAGNER BROOK
FLOW

TOE OF SLOPE DITCH
STA. 14+79± LT. TO STA. 15+65 LT.

DRAINAGE OUTLET
STA. 15+65 LT.

579'±
SLOPE
EASEMENT
1995± S.F.
LIMITS
CLL
MAINT. EASE.
1694± S.F.
TEMPORARY
724± S.F.
CONSTRUCTION LIMITS
0.06± AC.
TEMPORARY CONST. LIMITS
71'±
LIMITS OF 578± S.F. WROUGHT PORTION
33.00'
33'±
1765± S.F.
19+00
TO JEFFERSON
END B.L.
S.H.C. FILE NO. 8-2 (1929)
62'±
S.H.C. FILE NO. 8-2 (1929)
ROUTE 32
S.H. "34"
WINSLOWS MILLS ROAD
P.L.
N 0°25'14.9"E
700.00'
248'±
317'±
294'±
588'±
BEGIN B.L.
TO WALDOBORO
0.10± AC.
LIMITS OF WROUGHT PORTION
0.09± AC.
0.05± AC.
0.06± AC.
CENTER LINE ROAD 1929
CONSTRUCTION & MAINTENANCE EASE.
588± S.F.
1043± S.F.
TEMP. CONSTRUCTION LIMITS
1070± S.F.
55' LIMITS
75± S.F.
13+00
14+00
15+00
16+00
17+00
18+00

LELAND E. BOGGS, II
PARCEL NO. (2)
LAND TAKEN = 0.10± AC. (2) (PRESC. EASE.)
LAND TAKEN = 0.09± AC. (OTHER)
TOTAL LAND TAKEN = 0.19± AC.
CONST. & MAINT. EASE. = 588± S.F. (1)
TOTAL AREA = 1.70± AC. (CALC.)
REM. AREA = 1.51± AC.

ELMER R. HOCH, JR.
PARCEL NO. (4)
LAND TAKEN = 0.06± AC. (PRESC. EASE.)
LAND TAKEN = 0.05± AC. (OTHER)
TOTAL LAND TAKEN = 0.11± AC.
CONST. & MAINT. EASE. = 1043± S.F. (1)
TEMP. CONST. RIGHTS = 1070± S.F. (1)
TOTAL AREA = 20.3± AC. (DEED)
REM. AREA = 20.19± AC.

R/W REFERENCE
S.H.C. FILE NO. 8-2 (1929)
RELOCATION OF HIGHWAY "132"

NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION (L.O.W.P.)

WAGNER NO. 2 BRIDGE
OVER
HOCH BROOK
BRIDGE NO. 2905
WIN 018230.00

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

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

BRUCE A. VAN NOTE
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "34"
ROUTE 32, WINSLOWS MILLS ROAD
WALDOBORO LINCOLN COUNTY
STATE PROJECT NO. 18230.00

SEPTEMBER 2019	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 8-192
SCALE 1" = 25'	SHEET 1 OF 1	

SHEET NUMBER
22
OF 22

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: BRIDGE Username: Mark.Poulin Date:10/10/2019