STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition 2020.

DESIGN LOADING

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

STRUCTURE LIST

Structure	Station
Eaton Tributary Bridge, No. 6651	273+48
Critter Crossing #2, No. 6654	289+11

LIST OF DRAWINGS

BREWER-EDDINGTON
PENOBSCOT COUNTY
I-395/ROUTE 9 CONNECTOR
STREAM CROSSINGS
FEDERAL AID PROJECT NO. 1891500

PROJECT LOCATION — Starting in Brewer at the intersection of I-395 and Wilson Street (Route 1A). Ending in Eddington on Route 9 approximately 1000' west of where Route 9 crosses Meadow Brook.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE 12-15-2020

COMMISSIONER: [signature]

CHIEF ENGINEER: [signature] 12-15-2020

STATE OF MAINE — Joshua Paul Hasbrouck 14372 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE [signature] — P.E. NUMBER 14372 — DATE 9 December 2020

PROJECT INFORMATION

PROGRAM	BRIDGE
PROJECT MANAGER	M. WIGHT
DESIGNER	J. HASBROUCK
CONSULTANT	N/A
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

BREWER-EDDINGTON
I-395/ROUTE 9 CONNECTOR

TITLE SHEET

WIN018915.60

1891500

SHEET NUMBER 1 OF 5

Filename:\001_Title (Stream and Snowmobile).dgn Division: HIGHWAY Username: common Date:12/8/2020

PRECAST CONCRETE BOX CULVERT NOTES

1. The minimum fill cover is 17.97'± at Sta. 273+21.66± ; 20.0'± Rt.

2. The maximum fill cover is 19.09'± at Sta. 273+59.22± ; ℄ Roadway

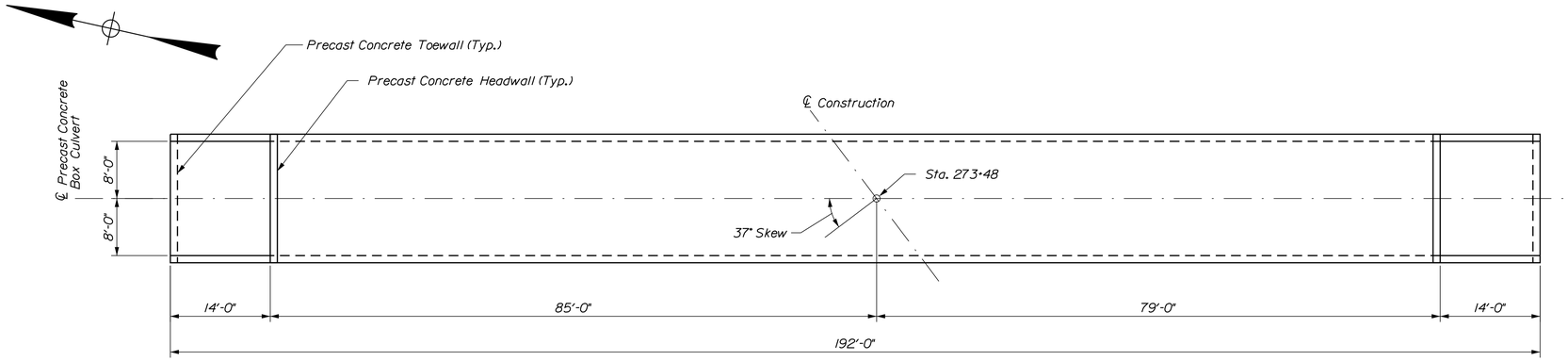
3. The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches on top of the units.

4. Backfill material in final construction will vary, and includes lightweight fill in some areas. For design, assume Granular Borrow material will be used for all structures.

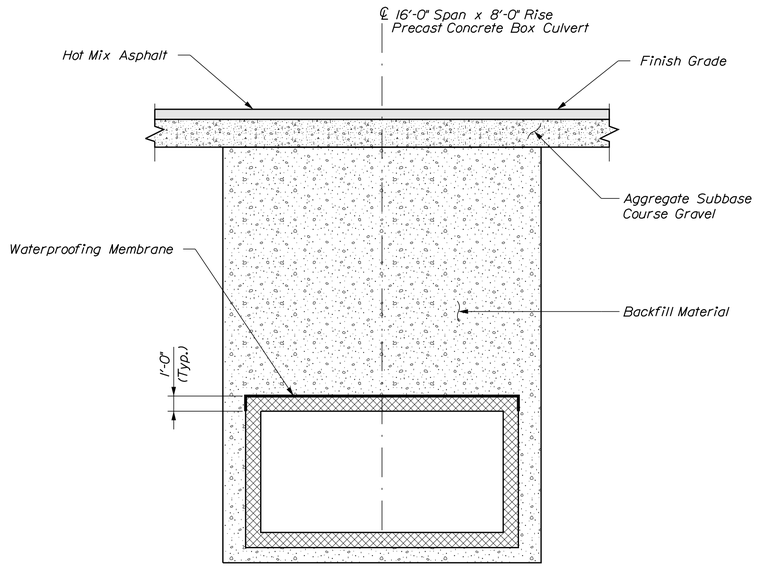
5. The bedding detail underneath the box will vary based on soil conditions, but will be a minimum of 1' of granular material. Additional geotechnical information may be requested from the Department if required for design.

6. All surfaces of the precast concrete units, except horizontal surfaces that are facing downwards while in storage, shall be coated with Protective Coating for Concrete Surfaces meeting the requirements of Standard Specifications Section 515. Protective Coating will not be paid for separately, but will be incidental to the precast concrete box culvert.

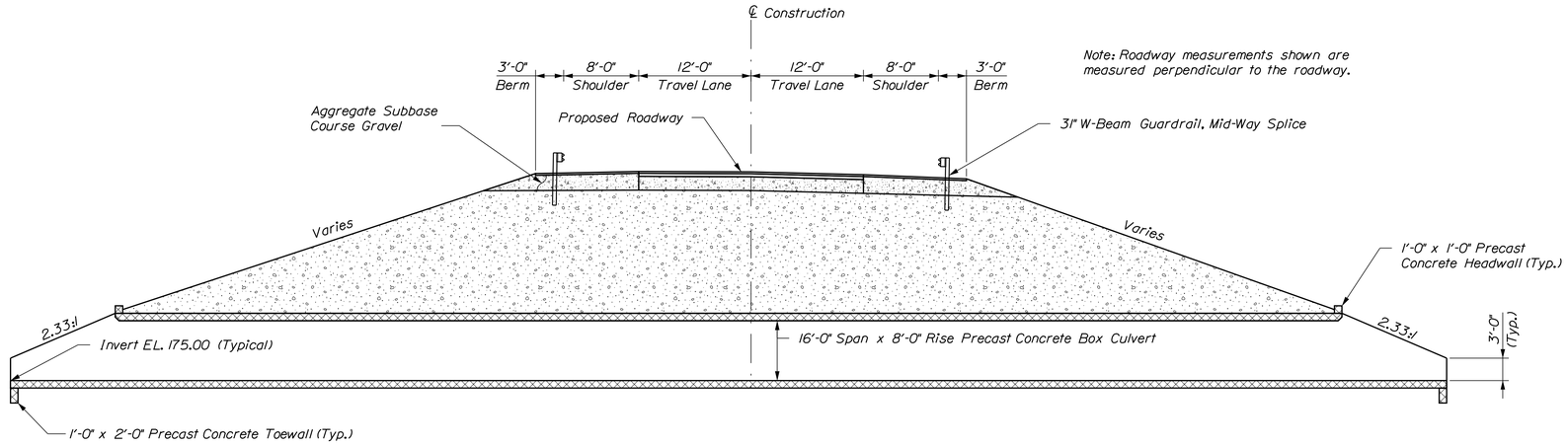
7. A clamshell precast concrete box culvert shall be required.



PROPOSED PRECAST CONCRETE BOX PLAN



PROPOSED TYPICAL PRECAST CONCRETE BOX TRANSVERSE SECTION



PROPOSED TYPICAL PRECAST CONCRETE BOX LONGITUDINAL SECTION

Section Along ℄ of Concrete Box at Sta. 273+48 Skewed 37° Ahead on Left

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

1891500

WIN 018915.60

BRIDGE NO. 6651

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	J. HASBROUCK	OCT. 2020	SIGNATURE
CHECKED-REVIEWED	R. MYERS	OCT. 2020	
DESIGN2-DETAILED2			P.E. NUMBER
DESIGN3-DETAILED3			
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

I-395/ROUTE 9 CONNECTOR
EATON BROOK TRIBUTARY (273+36)
BREWER-EDDINGTON PENOBSCOT COUNTY

PRECAST BOX DETAILS - EATON TRIBUTARY BRIDGE

SHEET NUMBER

2

OF 5

PRECAST CONCRETE BOX CULVERT NOTES

1. The minimum fill cover is 11.58'± at Sta. 289+6.30±; 20'± Rt.

2. The maximum fill cover is 13.00'± at Sta. 289+14.81±; 12'± Lt.

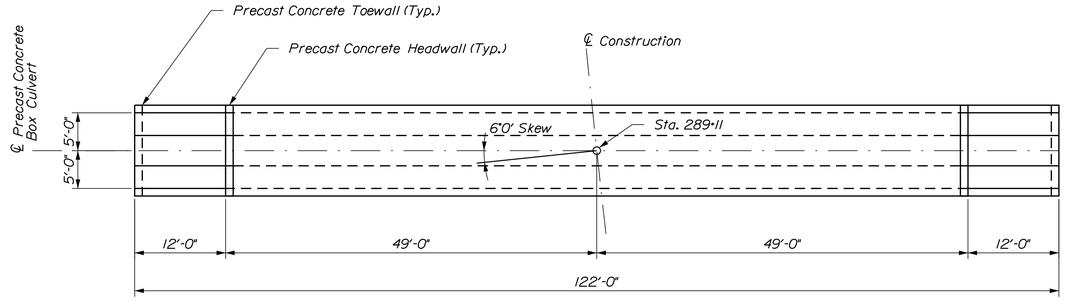
3. The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches on top of the units.

4. Backfill material in final construction will vary, and includes lightweight fill in some areas. For design, assume Granular Borrow material will be used for all structures.

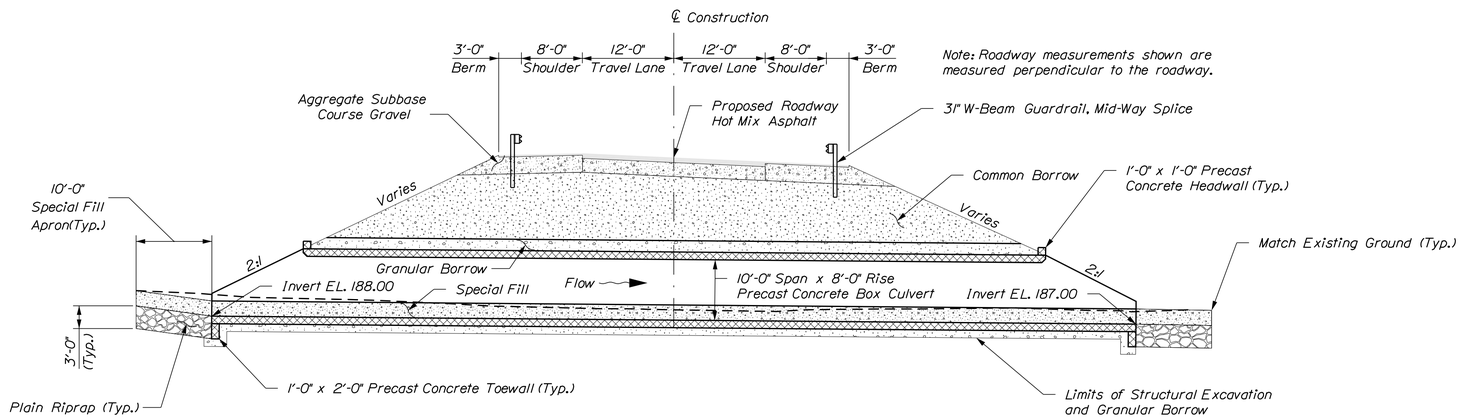
5. The bedding detail underneath the box will vary based on soil conditions, but will be a minimum of 1' of granular material. Additional geotechnical information may be requested from the Department if required for design.

6. All surfaces of the precast concrete units, except horizontal surfaces that are facing downwards while in storage, shall be coated with Protective Coating for Concrete Surfaces meeting the requirements of Standard Specifications Section 515. Protective Coating will not be paid for separately, but will be incidental to the precast concrete box culvert.

7. A clamshell precast concrete box culvert shall be required.



PROPOSED PRECAST CONCRETE BOX PLAN



PROPOSED TYPICAL PRECAST CONCRETE BOX LONGITUDINAL SECTION

Section Along ℄ of Concrete Box at Sta. 289+11 Skewed 6° Ahead on Left

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

1891500

WIN 018915.50

BRIDGE NO. 6654

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	J. HASBROUCK	BY	DATE
CHECKED-REVIEWED	R. MYERS	D. SHAW	OCT. 2020
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

I-395/ROUTE 9 CONNECTOR
WETLAND CROSSING (289+11)
BREWER-EDDINGTON PENOBSCOT COUNTY

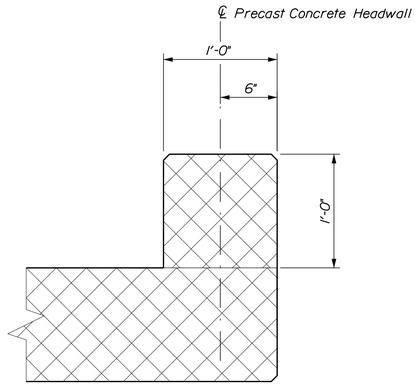
PRECAST BOX DETAILS - CRITTER CROSSING #2

SHEET NUMBER

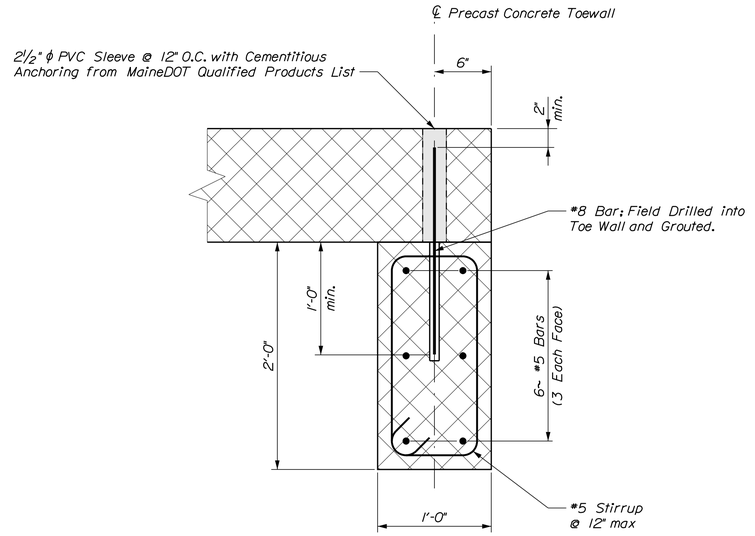
3

OF 5

Filename: ...\003_Btypical_Critter-Crossings_2.dgn Division: BRIDGE Username: common Date:12/9/2020



PRECAST CONCRETE HEADWALL DETAIL



PRECAST CONCRETE TOEWALL DETAIL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

1891500

WIN 018915.60

BRIDGE NO. BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	J. HASBROUCK	R. MAYER	OCT. 2020
CHECKED-REVIEWED	R. MYERS	D. SHAW	OCT. 2020
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

I-395/ROUTE 9 CONNECTOR
VARIOUS BRIDGES
BREWER-EDDINGTON PENOBSCOT COUNTY

PRECAST BOX DETAILS - HEADWALL & TOEWALL

SHEET NUMBER

4

OF 5

6002+00

6001+00

6000+00

R/W R...

P.I.

651 Airline Road

PENOBSCOT COUNTY
VOL. 1, PAGE 324
4 RODS, 1830

S.H.C. FILE NO. 10-135, 1981

EXISTING DRAINAGE OUTLET DITCH
10-135, 1961

Storage Area for WIN 018915.50:
Approximately 37,000 Sq. Ft. Total

Existing Route 9

625'±

360'±

218'±

Proposed Utility Pole

25' Clear Around Proposed Utility Pole

Proposed
Utility Pole

25' Clear Around
Proposed Utility Pole

326+00 +90± +43± 327+00 +58± 328+00 329+00 +60 330+00 +70 331+00 332+00 333

Proposed Route 9

For Exact Locations of Wetland Lines, Survey
Layout May be Requested from the Department

These Areas are Mapped as Wetland and
Not Available Until After The Main WIN
018915.00 Route 9 Connector Has Advertised

3.37± AC.

50' ACCESS EASEMENT TO
BANGOR HYDRO ELECTRIC COMPANY
DATED 6-14-2013
BK. 13246, PG. 263

GARAGE

POOL

2 STORY HOUSE

100'

P.L.

742'±

Current Route 9 ROW

House Shown in Survey Plans
Has Been Demolished

Storage Area for WIN 018915.60:
Approximately 30,000 Sq. Ft. Total

NOTE: ACCESS TO AND EGRESS FROM
STATE HIGHWAY "46" (ROUTE 9) OVER AND ACROSS
PARCEL NO. (4) RESERVED TO BANGOR HYDRO ELECTRIC
COMPANY, ITS SUCCESSORS AND ASSIGNS AS DESCRIBED
IN ACCESS EASEMENT
DATED JUNE 14, 2013
P.C.R.D. BOOK 13246, PAGE 263

APPROX. LOC.
SEPTIC SYSTEM
PER POR

2 STORY SHED

TENNIS COURT

APPROX. LOC.
LEACH FIELD
PER POR

POR NO. 105
MAP 6, LOT 11
HAL A. MEYERS
LAURIE A. MEYERS

PLAN

25 0 25 50

Scale of Feet

R/W REFERENCE

ROUTE 9
S.H.C. FILE NO. 10-135
SHEET 2 & 3 OF 10, 1961

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

1891500

WIN 018915.60

BRIDGE NO. BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	J. HASBROUCK	R. MAYER	OCT. 2020
CHECKED-REVIEWED	R. MYERS	D. SHAW	OCT. 2020
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

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DATE

I-395/ROUTE 9 CONNECTOR
VARIOUS BRIDGES
BREWER-EDDINGTON PENOBSCOT COUNTY

ROUTE 9 LAYDOWN AREA PLAN

SHEET NUMBER

5

OF 5