

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

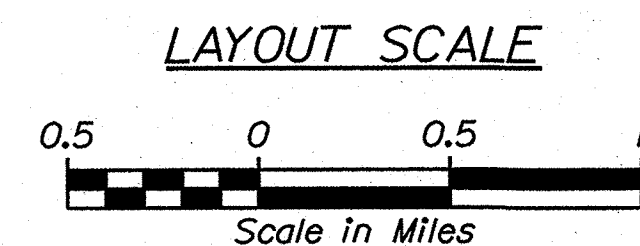
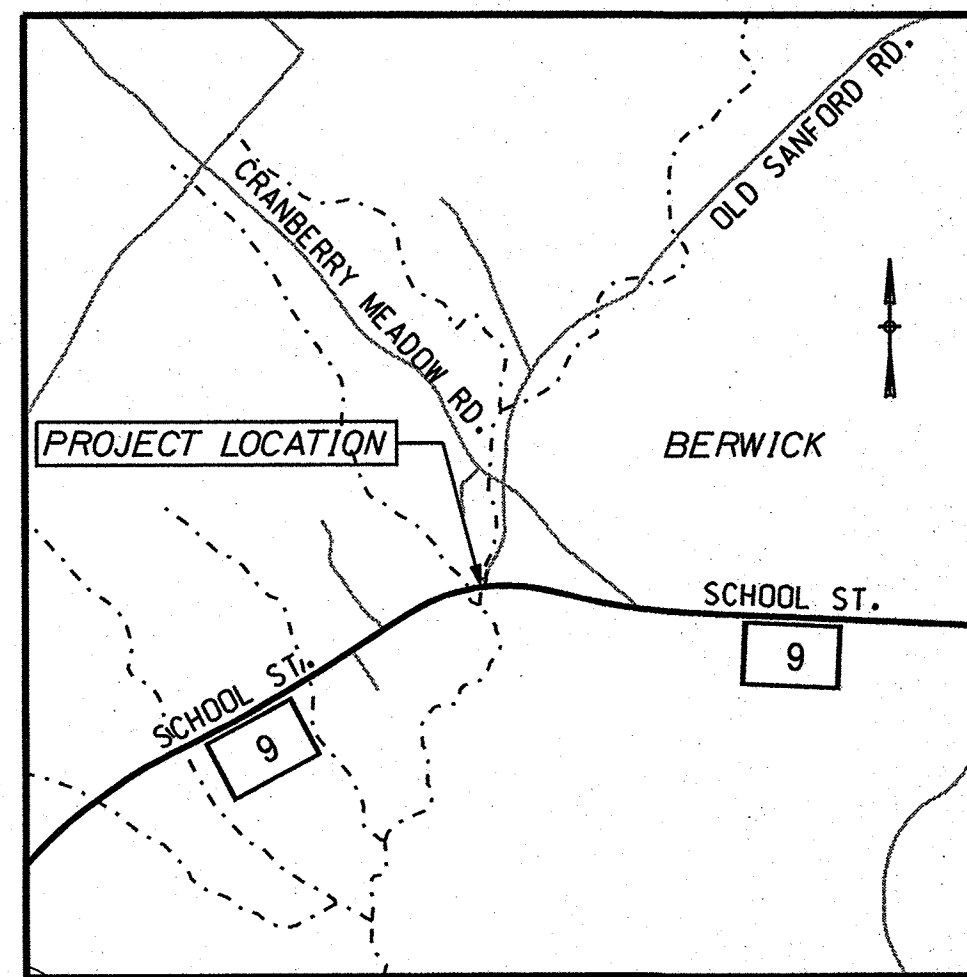
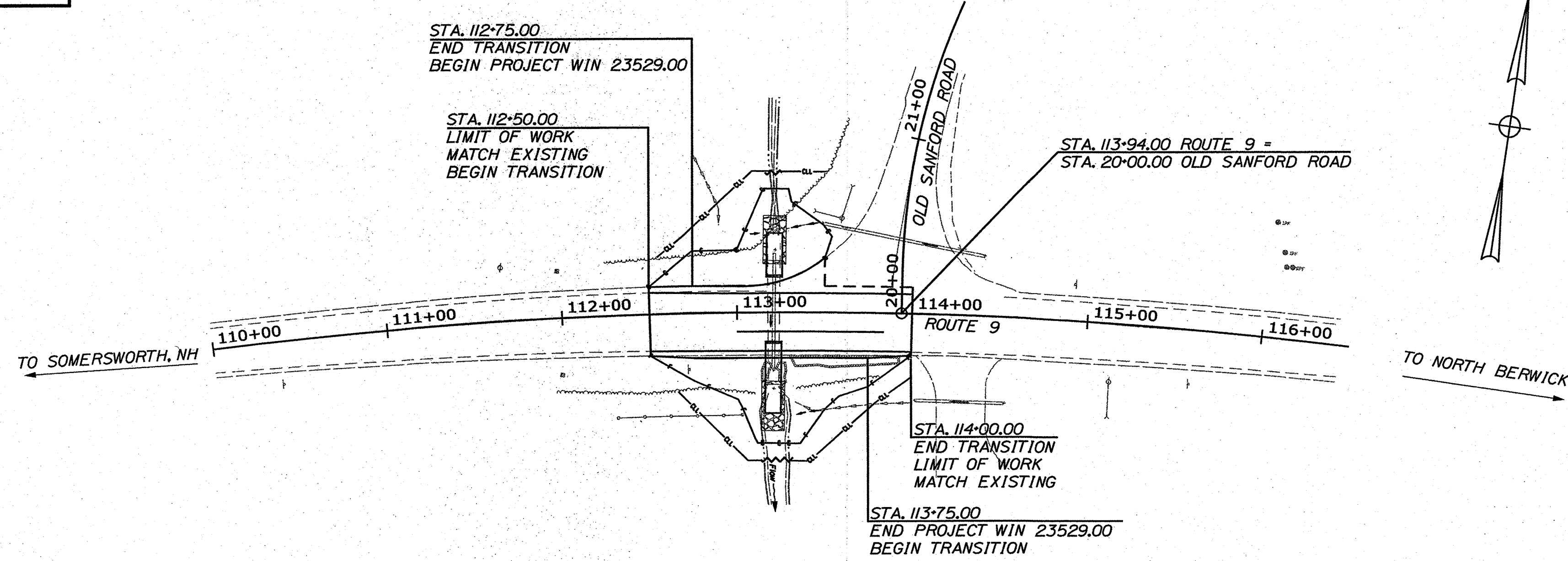


BERWICK YORK COUNTY ROUTE 9

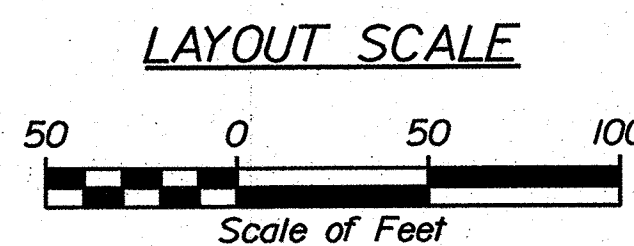
STATE PROJECT NO. 23529.00P
PROJECT LENGTH : 0.02 MILES

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
Special Details	2

PLAN LEGEND	
Town, County, State _____	Catch Basins <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Property Lines - - - - -	Manholes <input type="circle"/> Existing <input type="circle"/> Proposed
R/W Lines-Existing - - - - -	Proposed Underdrain _____
R/W Lines-Proposed - - - - -	Proposed Ditch _____
Culvert-Existing _____	Existing Ditch _____
Culvert Proposed _____	Utility Poles <input type="circle"/> Existing <input type="circle"/> Proposed
Curbing Existing Proposed	Fire Hydrants <input type="circle"/> Existing <input type="circle"/> Proposed
Type 1 _____	Existing Water Line _____
Type 3 _____	Existing San. Sewer _____
Type 5 _____	Existing San. Sewer Manhole <input type="circle"/>
Outline of Bodies of Water _____	Guardrail-Existing _____
Exposed Bedrock _____	Guardrail-Proposed _____
Buildings _____	Guardrail-Cable, Other _____
Trees <input type="circle"/> Conifer <input type="circle"/> Deciduous	Centerline-Existing _____
Tree Line _____	Centerline-Proposed _____
Clearing Limit Line _____	Travelway-Existing _____
Railroad _____	Travelway-Proposed _____
Boring <input type="circle"/> HB-XXX-###	Probe <input type="circle"/> P-#. #X
Pavement Core <input type="circle"/> PC-#	## = Depth
Test Pit <input type="square"/> TP-XXX-###	X = W (Weathered Rock)
	R (Refusal)
	NR (No Refusal)



TRAFFIC DATA	
ROUTE 9	
Current (2022) AADT	8470
Future (2034) AADT	8980
Future (2042) AADT	9320
DHV - % of AADT	10%
Design Hour Volume	932
% Heavy Trucks (AADT)	6%
% Heavy Trucks (DHV)	4%
Directional Distribution (DHV)	52%
18 kip Equivalent P 2.0	233
18 kip Equivalent P 2.5	223
Design Speed (mph)	50
Functional Class	Minor Arterial
Highway Corridor Priority	2



PROJECT LOCATION:	The project is located in the Town of Berwick on Route 9, approximately 0.02 miles west of the intersection with Old Sanford Road. (Large Culvert #189339)
PROGRAM AREA:	Highway Program
SCOPE OF WORK:	Large Culvert Rehabilitation - Materials Only

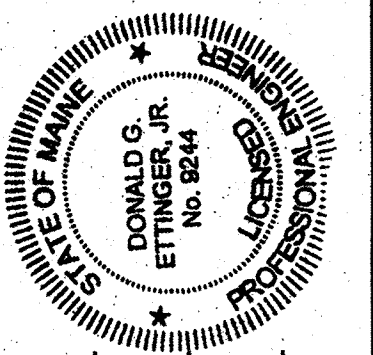
WIN 23529.00P

**BERWICK
ROUTE 9
TITLE SHEET**

SHEET NUMBER

1

OF 2



SIGNATURE: [Signature]
P.E. NUMBER: 8244
DATE: 11/02/2021

PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
HIGHWAY	L. HAMILTON	D. ETTINGER	GORRILL PALMER			

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED: [Signature]	DATE: 12-21-21
COMMISSIONER: [Signature]	CHIEF ENGINEER: [Signature]	

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Date: 10/15/2021

Username: Mike.Cundiff

Division: HIGHWAY

Filename: ... \Highway\Prebuy\001_Title.dgn

U:\3569-Berwick Route 9 Culvert\Z - CAD\000\Highway\Prebuy\001_Title.dgn

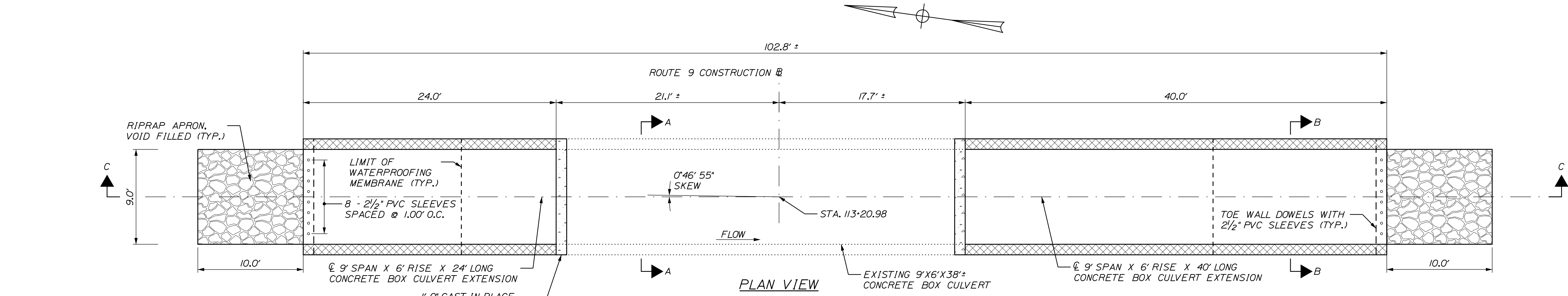
Date: 10/15/2021

Username: Mike.Cundiff

Division: HIGHWAY

Filename: ... \Prebuy\002_CulvertDetail.dgn

U:\3569-Berwick Route 9_Culvert\Z - CAD\00\Highway\Prebuy\002_CulvertDetail.dgn

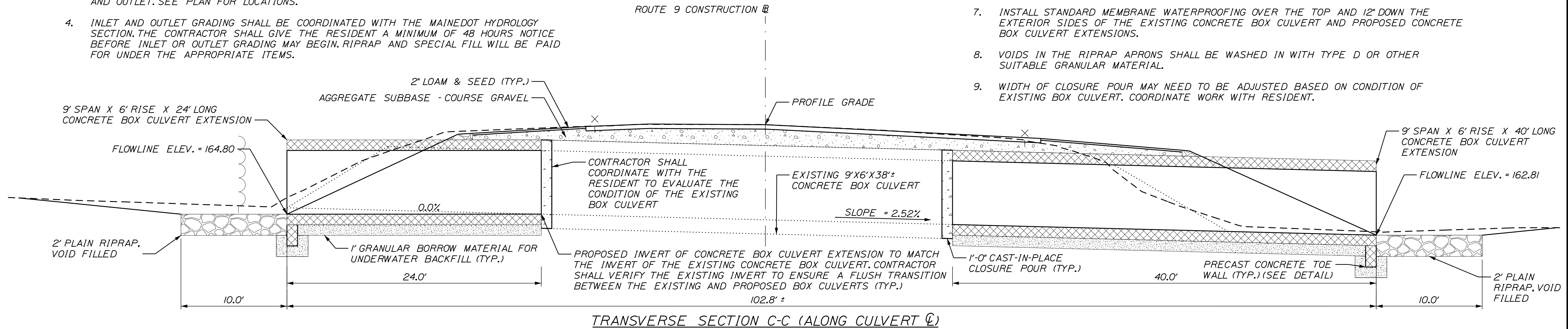


NOTES:

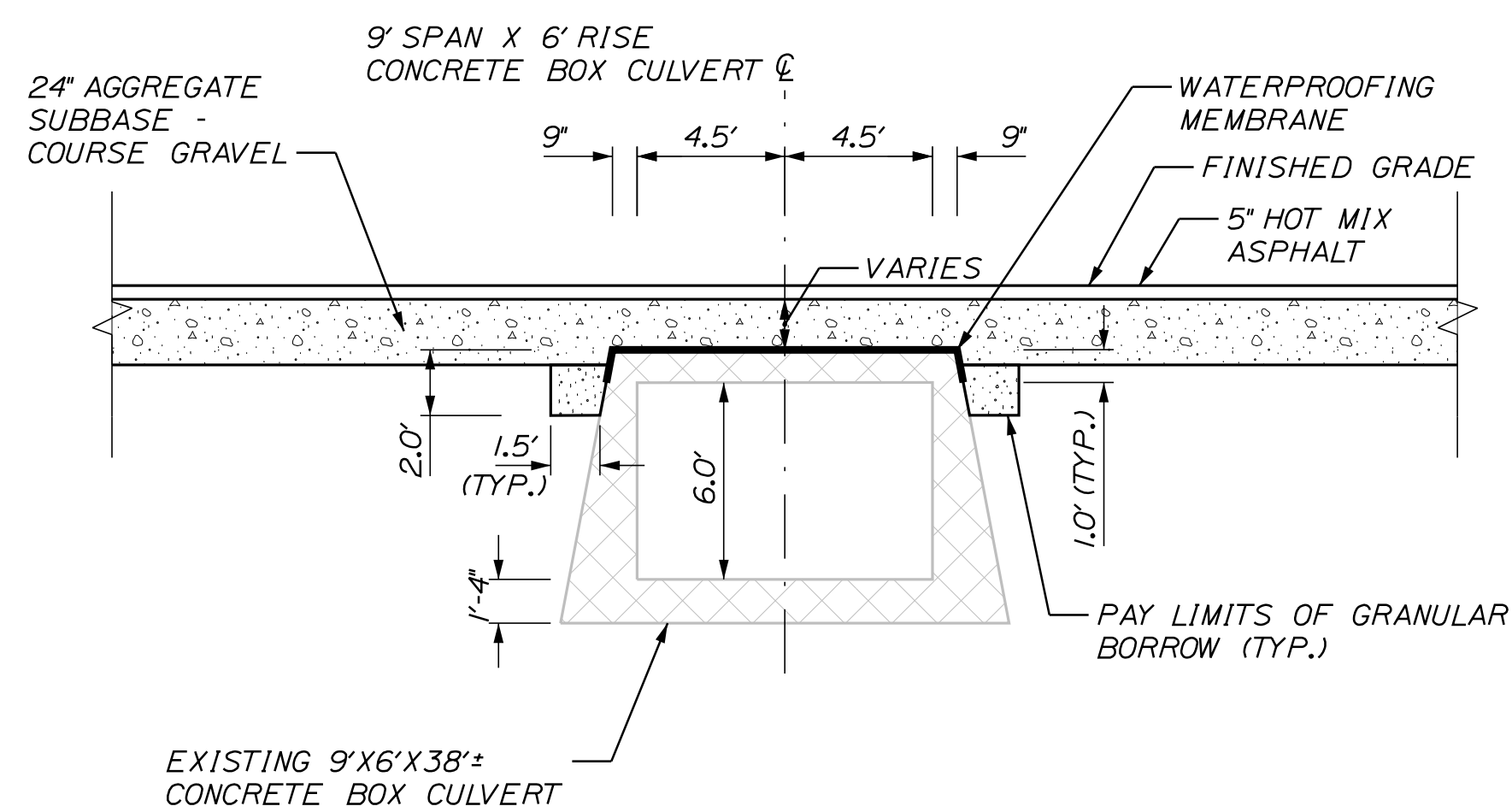
1. THE CULVERT EXTENSIONS SHALL BE BEDDED ON A 1-FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL MEETING THE REQUIREMENTS FOR UNDERWATER BACKFILL.
2. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE CULVERT TO ALLOW CONSTRUCTION OF THE CULVERT IN THE DRY.
3. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN FOR LOCATIONS.
4. INLET AND OUTLET GRADING SHALL BE COORDINATED WITH THE MAINEDOT HYDROLOGY SECTION. THE CONTRACTOR SHALL GIVE THE RESIDENT A MINIMUM OF 48 HOURS NOTICE BEFORE INLET OR OUTLET GRADING MAY BEGIN. RIPRAP AND SPECIAL FILL WILL BE PAID FOR UNDER THE APPROPRIATE ITEMS.

NOTES CONTINUED:

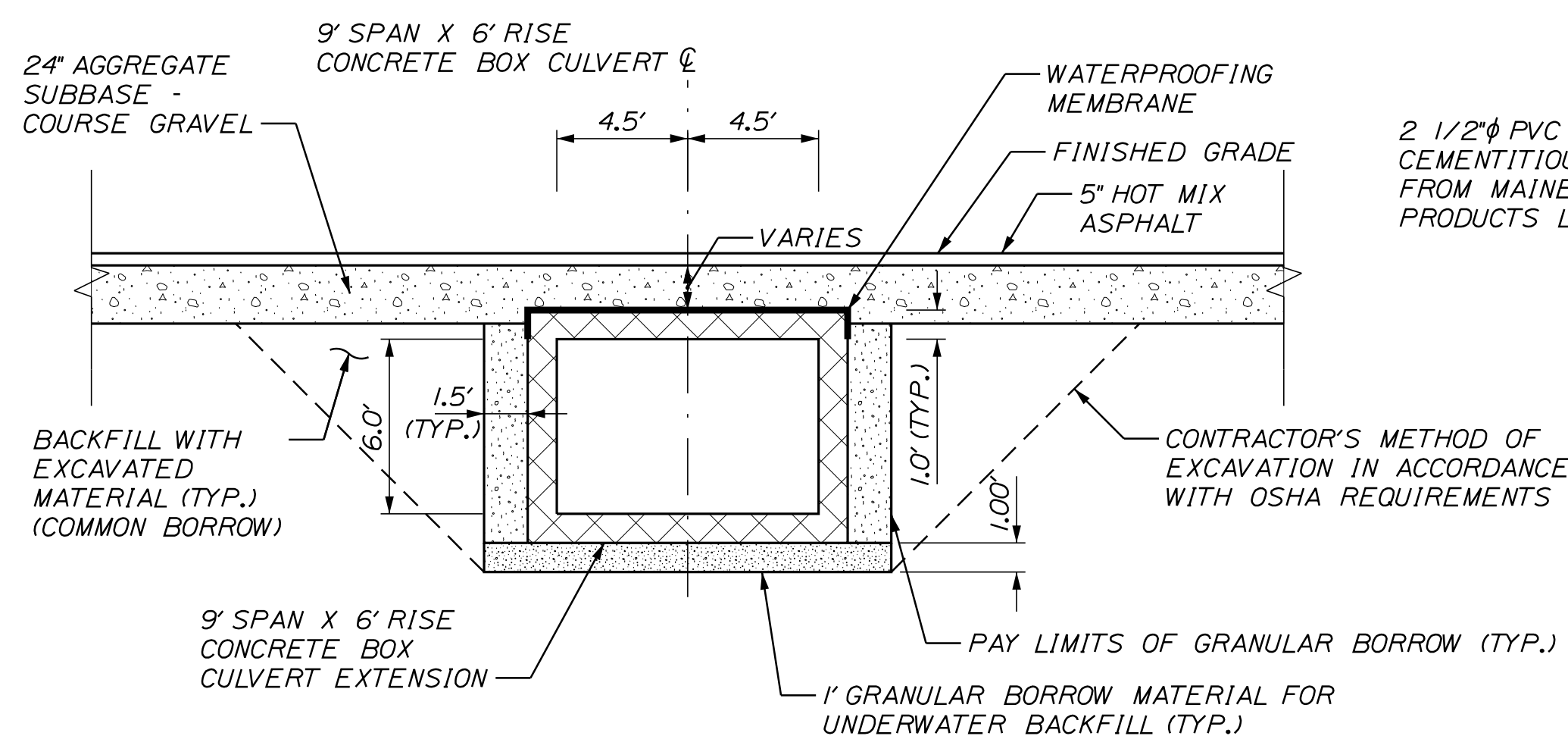
5. THE MECHANICAL CONNECTION BETWEEN THE EXISTING BOX CULVERT ENDS AND THE PROPOSED BOX CULVERT EXTENSIONS SHALL BE DESIGNED BY THE CONTRACTOR AND THE SUPPLIER AND SUBMITTED TO THE DEPARTMENT FOR REVIEW AND ACCEPTANCE. MECHANICAL CONNECTION SHALL BE CONSIDERED INCIDENTAL TO ITEM 534.71.
6. PAYMENT FOR THE CAST IN PLACE CLOSURE POUR SHALL BE INCIDENTAL TO ITEM 534.71.
7. INSTALL STANDARD MEMBRANE WATERPROOFING OVER THE TOP AND 12" DOWN THE EXTERIOR SIDES OF THE EXISTING CONCRETE BOX CULVERT AND PROPOSED CONCRETE BOX CULVERT EXTENSIONS.
8. VOIDS IN THE RIPRAP APRONS SHALL BE WASHED IN WITH TYPE D OR OTHER SUITABLE GRANULAR MATERIAL.
9. WIDTH OF CLOSURE POUR MAY NEED TO BE ADJUSTED BASED ON CONDITION OF EXISTING BOX CULVERT. COORDINATE WORK WITH RESIDENT.



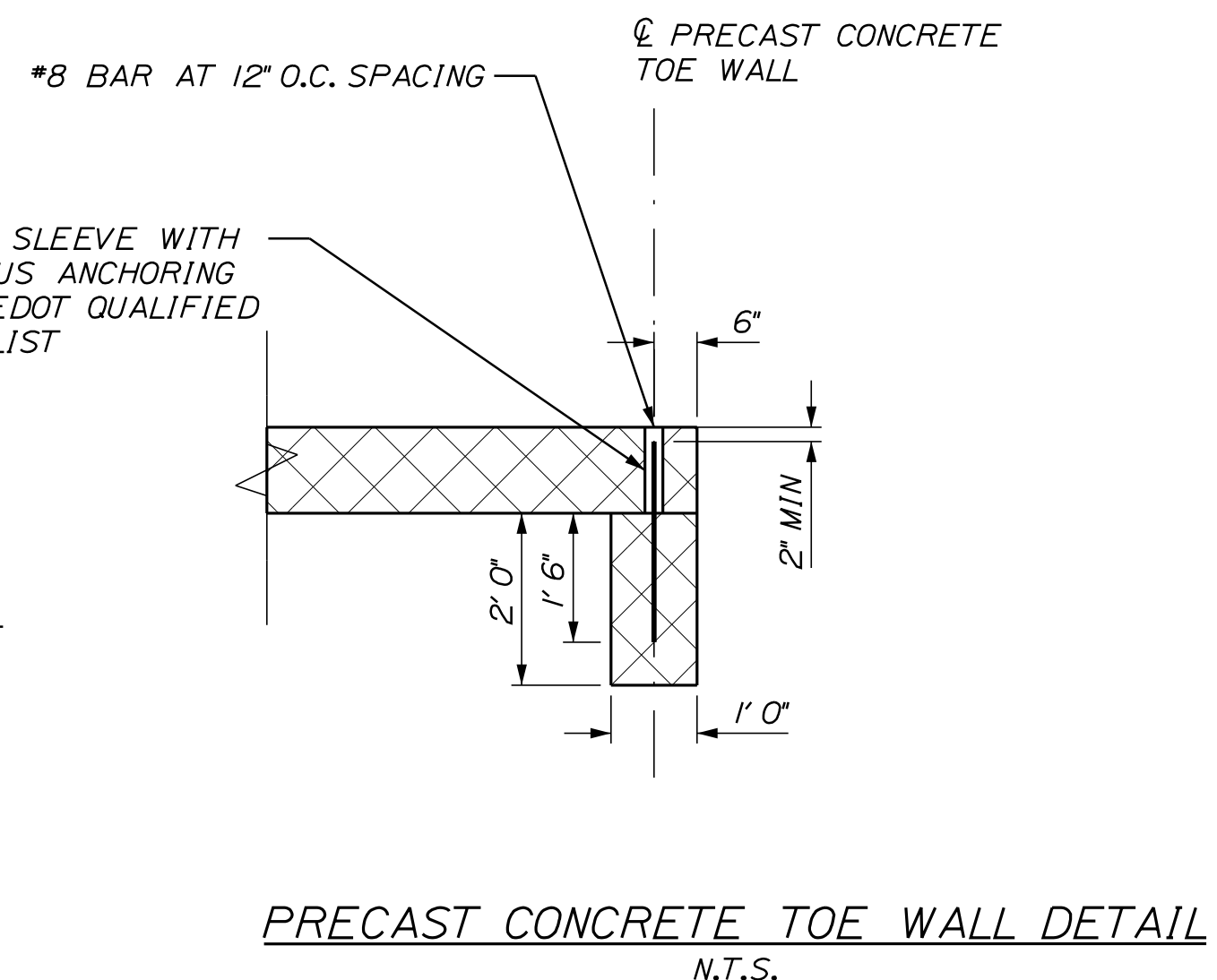
TRANSVERSE SECTION C-C (ALONG CULVERT C)



TYPICAL SECTION A-A



TYPICAL SECTION B-B



PRECAST CONCRETE TOE WALL DETAIL
N.T.S.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
23529.00P
HIGHWAY PLANS

PROJ. MANAGER	DESIGN	CHECKED	DATE	BY	DATE
L. HAMILTON	T. LANDRY	T. WARREN	10/21	T. WARREN	10/21
DESIGNED	DESIGNED	DESIGNED			
DESIGNED	DESIGNED	DESIGNED			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

BERWICK
ROUTE 9

SPECIAL DETAILS

SHEET NUMBER

2

OF 2

NOT TO SCALE