

FWA	STATE	CON	FEI	PROJ	YEAR	ROUTE	SHEET	TOTAL
1188138	CONN.	ENFIELD	1188138	48-138	1984	1-91	199	409

GENERAL NOTES

SPECIFICATIONS: State of Connecticut Department of Transportation Form 812 (1980) and Special Provisions.

DESIGN SPECIFICATIONS: Standard Specifications for Highway Bridges (AASHTO, 1977), with the interim specifications up to and including (1983), as supplemented by the Connecticut Department of Transportation Bridge Manual (1964).

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete	$f_c = 3000$ psi
Reinforcement (A 615 Grade 60)	f_s (tensile) = 24,000 psi
Class "50" Concrete	$f_c = 5000$ psi

LIVE LOAD: HS 20-44/24,000# Dual axles at 4' c.c.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges shall be beveled 1" x 1" unless dimensioned otherwise.

FOUNDATION PRESSURES: The various Group Loadings noted on the substructure plan sheets refer to the Group Loads as given in the AASHTO Standard Specifications for Highway Bridges.

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without prior approval of the Engineer.

DIMENSIONS: Dimensions in decimals are to three decimal places. Omitted digits to the right of the decimal point or whole number are to be assumed as zeros.

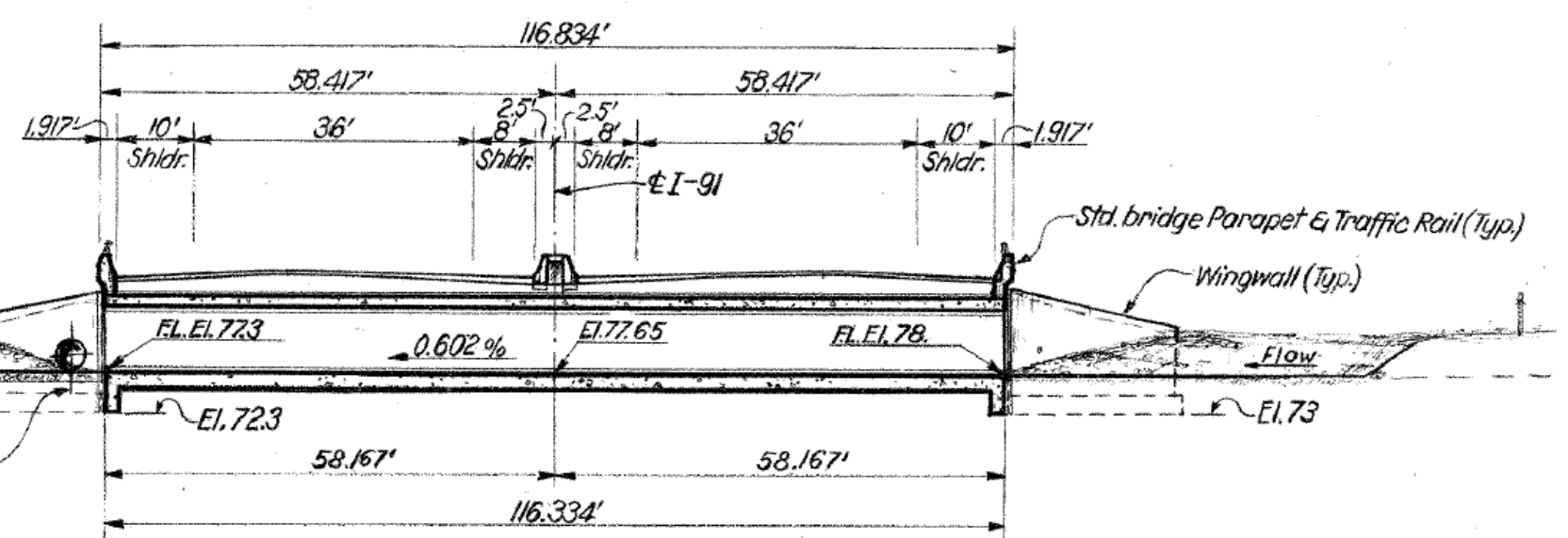
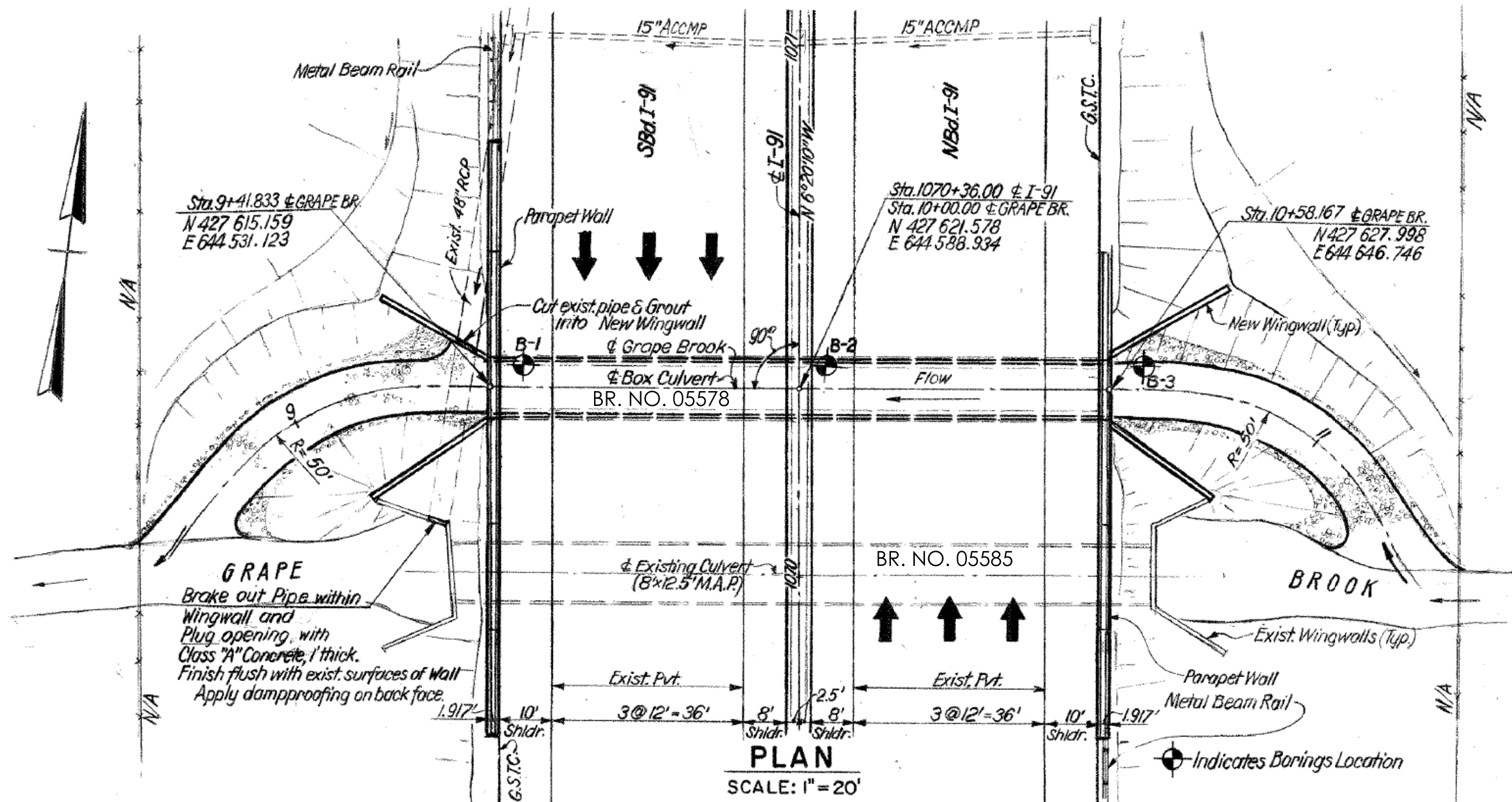
FUTURE PAVING ALLOWANCE: None.

CLASS "A" CONCRETE: Class "A" Concrete shall be used throughout, except precast Culvert sections.

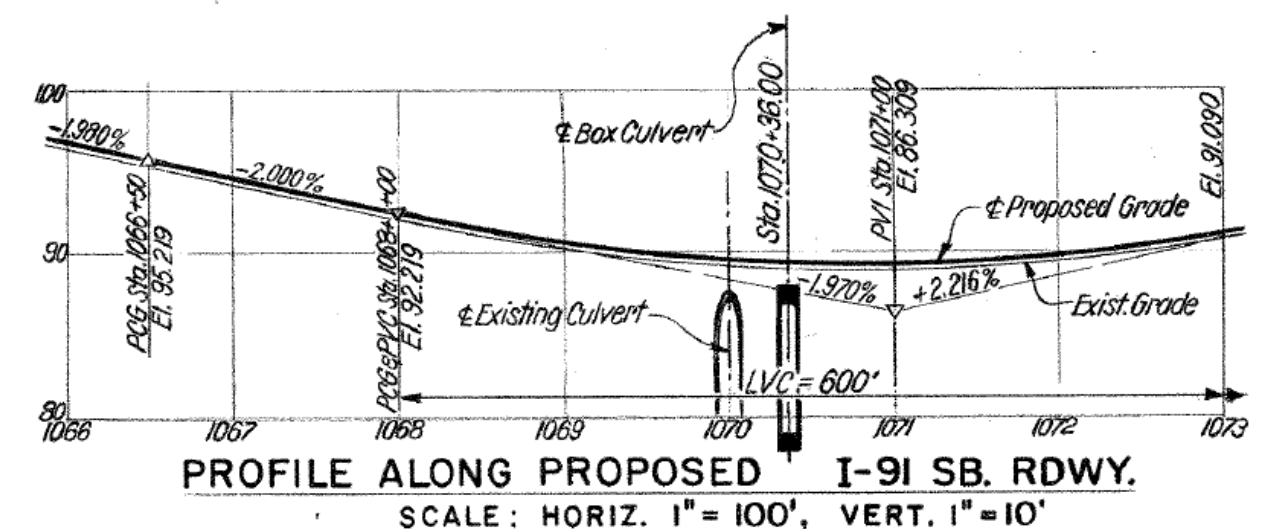
CLASS "50" CONCRETE: Class "50" Concrete shall be used in precast Culvert sections.

HYDRAULIC DATA:

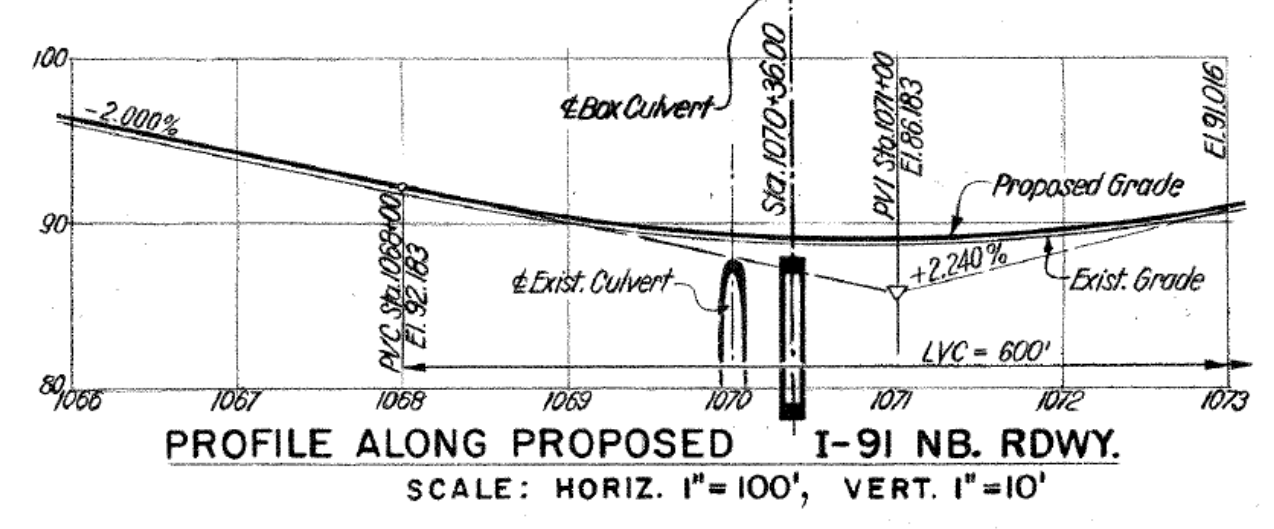
Drainage Area:	2.52 Sq. Miles
Discharge:	1500 cfs (100 year frequency)
Design Water Surface:	El. 83.46 (N.G.V.D.)



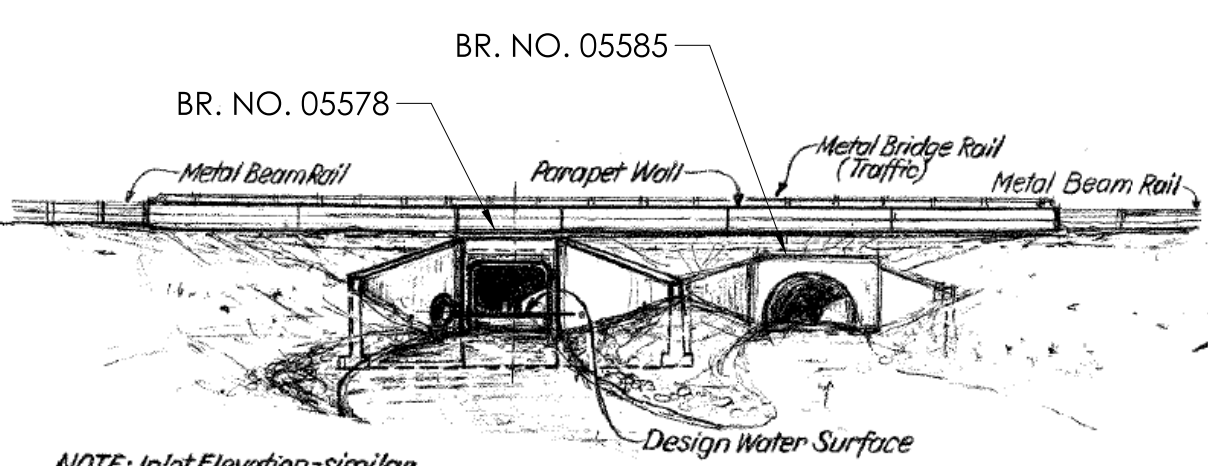
LONGITUDINAL SECTION
SCALE: 1" = 20'



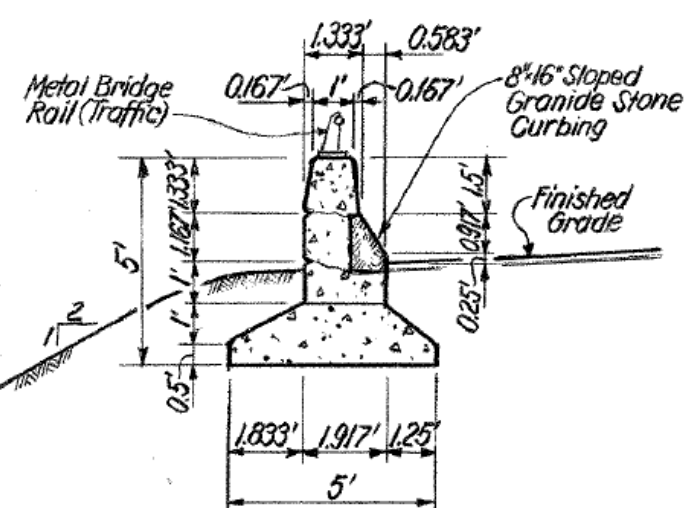
PROFILE ALONG PROPOSED I-91 SB. RDWY.
SCALE: HORIZ. 1" = 100', VERT. 1" = 10'



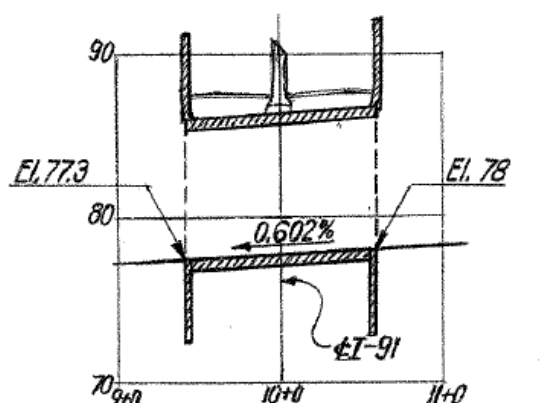
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SCALE: HORIZ. 1" = 100', VERT. 1" = 10'



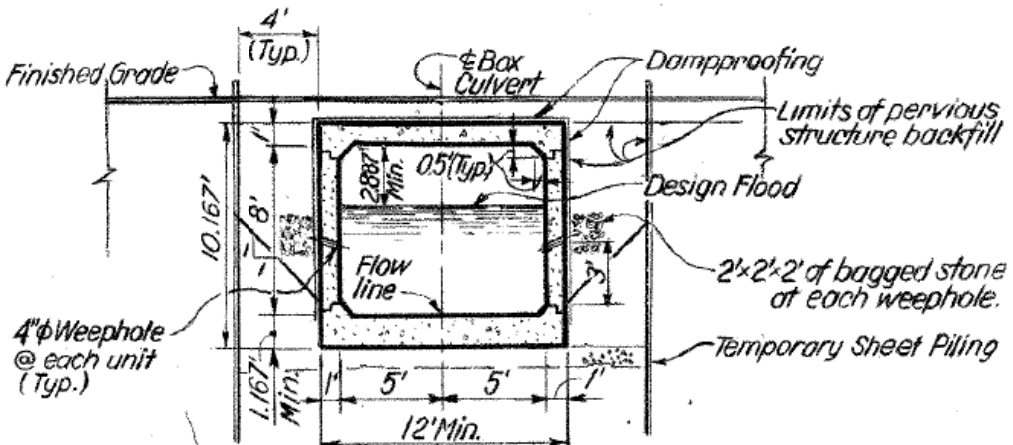
OUTLET ELEVATION
SCALE: 1" = 20'



TYPICAL PARAPET WALL SECTION
SCALE: 1/4" = 1'-0"



PROFILE ALONG PROPOSED GRAPE BROOK CHANNEL
SCALE: HORIZ. 1" = 100', VERT. 1" = 10'



TYPICAL BOX CULVERT SECTION
SCALE: 1/8" = 1'-0"

QUANTITIES		
Bridge Pay Item	Unit	Amount
Structure Excavation - Earth (Complete)	C.Y.	1,122
Gravel Fill	C.Y.	141
Pervious Structure Backfill	C.Y.	1,077
Soil Loading Test	Eq.	1
Class "A" Concrete	C.Y.	281
Deformed Steel Bars	Lbs.	23,180
Concrete Cylinder Curing Box	Eq.	1
16" Pref. Exp. Joint Filler for Bridges	S.F.	710
Dampproofing	S.F.	564
Bagged Stone	C.F.	304
8"x16" Sloped Granite Stone Curbing for Bridges	L.F.	204
Temporary Barrier (Structure)	L.F.	40
Metal Bridge Rail (Traffic)	L.F.	204
Temporary Sheet Piling	S.F.	5,084
Sheet Piling Material Left in Place	S.F.	5,084
Precast Reinf. Conc. Box Culvert Units (48-138-202)	L.F.	117
Removal of Existing Masonry	C.Y.	8
Handling water (48-138-202)	L.S.	L.S.

CONCRETE DISTRIBUTION		INSPECTION of FIELD WELDS	
Superstructure	c.y.	METHOD	UNIT QUANT.
Substructure	c.y.	Radiographic or Ultrasonic	in. None
Footings	c.y.	Ultrasonic	in. None
TOTAL	c.y.	Magnetic Particle	l.f. None

FEDERAL AID PROJECT NO. I-91-3(105)53

CONNECTICUT DEPARTMENT OF TRANSPORTATION	
ENFIELD	
INTERSTATE ROUTE 91 OVER GRAPE BROOK	
GENERAL PLAN	
ENGINEER	FRANKLAND & LIENHARD CONSULTING ENGINEERS
APPROVED	DATE 6-27-84
DRAFTSMAN	CHECKER
DESIGNER	DESIGNER
STRUCTURE NO. 48-138-202	STRUCTURE SHEET 1 OF 9

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

304-01
FOR REFERENCES ONLY
NOT TO SCALE

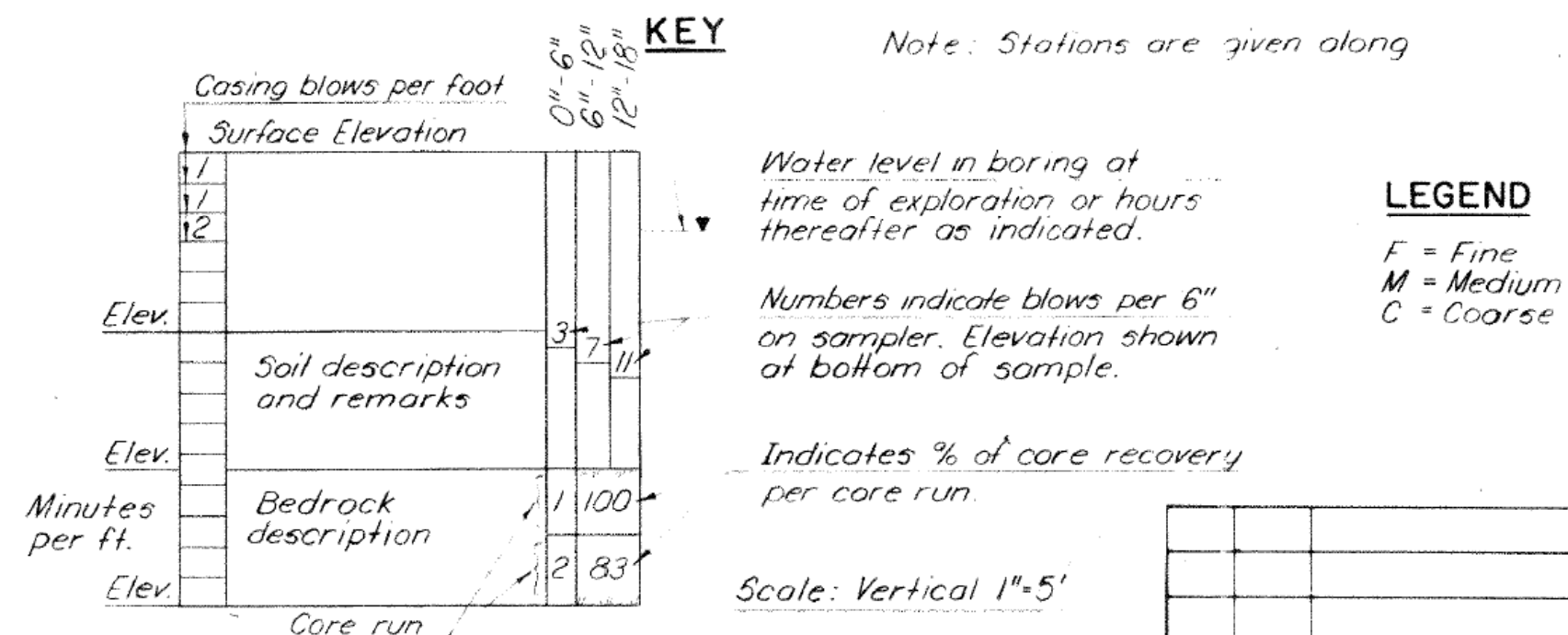
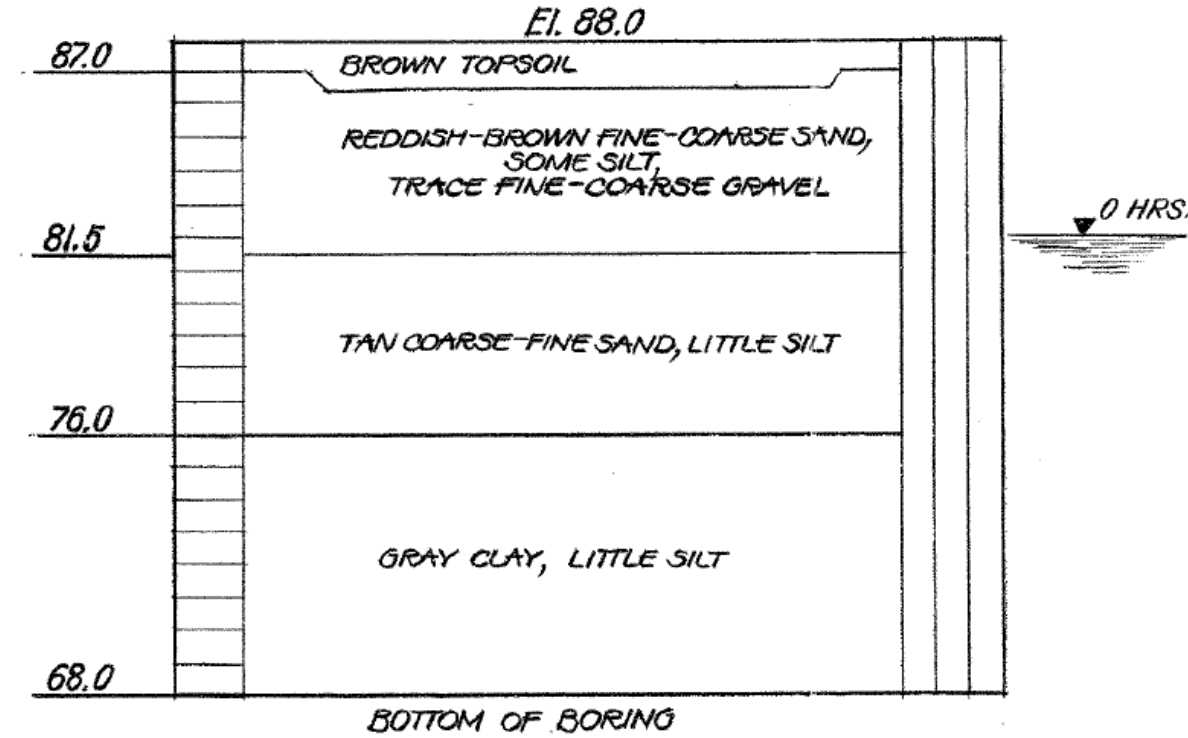
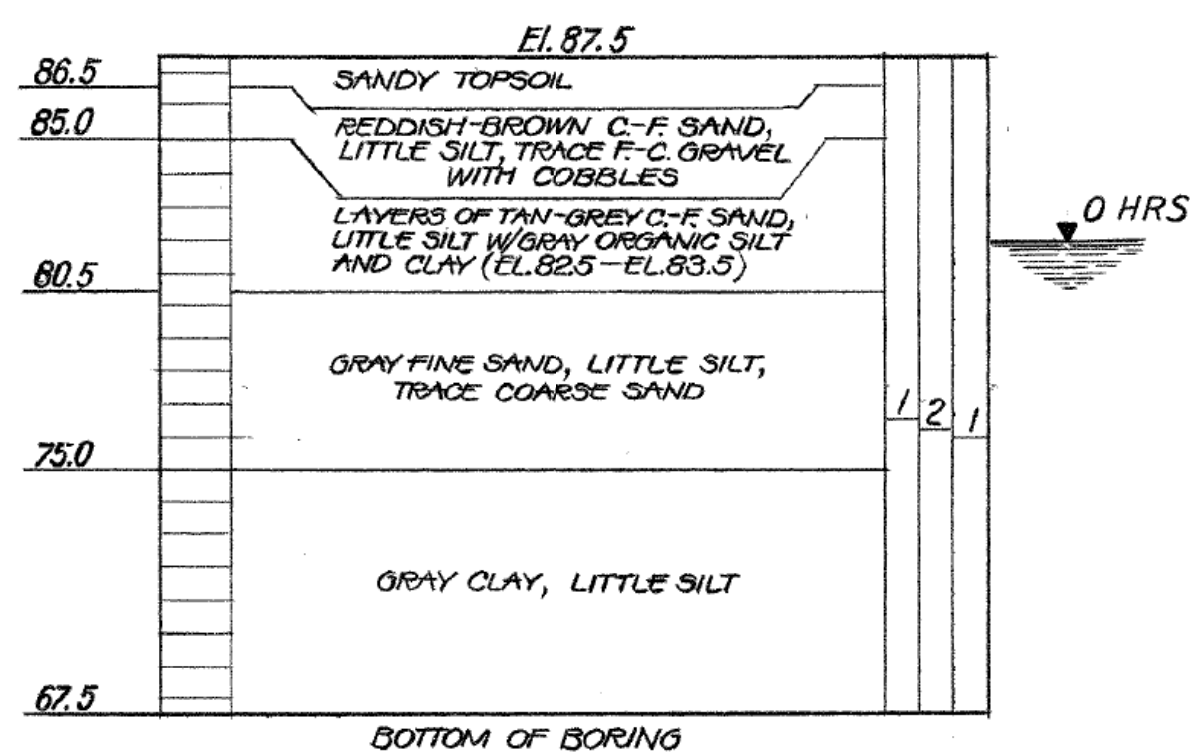
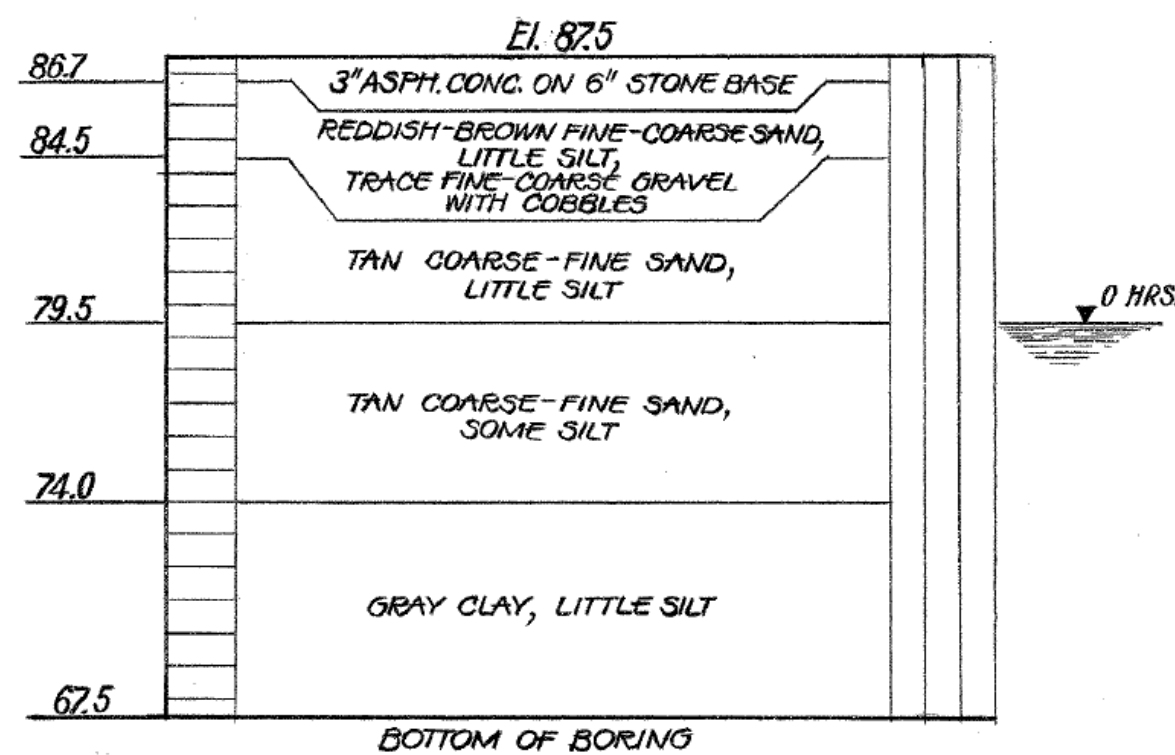
REV.	DATE	REVISION DESCRIPTION

FUR. ROAD DIV. NO.	STATE	TOWN	FED. AID PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	ENFIELD	1-363 (10555)	48-138	1984	1-91 200	409

HOLE NO. B-1.
STA. 1070+40
OFFSET 52' LT.
2/29/84
N 427 622
E 644 537

HOLE NO. B-2.
STA. 1070+40
OFFSET 5' RT.
3/1/84
N 427 628
E 644 593

HOLE NO. B-3.
STA. 1070+40
OFFSET 65' RT.
2/29/84
N 427 635
E 644 653



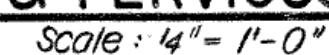
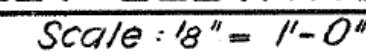
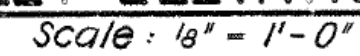
CONNECTICUT DEPARTMENT OF TRANSPORTATION			
ENFIELD			
INTERSTATE ROUTE 91 OVER GRAPE BROOK			
BORINGS			
ENGINEER	FRANKLAND & LENHARD CONSULTING ENGINEERS		
APPROVED	<i>H. Myron Repkalo</i>		DATE 6-27-84
DRAFTSMAN	Z.B.	CHECKER	I.A.
DESIGNER	H.S.		
REVISIONS	STRUCTURE NO 48-138-202	STRUCTURE SHEET 2 OF 9	

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:		PROJECT TITLE:		TOWN(S):		DRAWING TITLE:		PROJECT NO.:		DRAWING NO.:	
DESIGNER/DRAFTER: JGV CHECKED BY: JVS		REPLACEMENT OF BRIDGE NO. 05585 - INTERSTATE 91 OVER GRAPE BROOK		ENFIELD		EXISTING BR. NO. 05578 STRUCTURE DRAWING - 2		0048-0200		FIO-03	
LASTED SAVED BY: ADA 036 PLOTTED DATE: 6/24/2025		FILE NAME: K:\CT_Projects\0048-0200\Bridge\Contract_Plans\HW_CP_0048_0200_EXISTING PLANS.dgn								SHEET NO.:	

LASTED SAVED BY: ADA 036
PLOTTED DATE: 6/24/2025

FILE NAME: K:\CT_Projects\0048-0200\Bridge\Contract_Plans\HW_CP_0048_0200_EXISTING PLANS.dgn



Scale : $1/8" = 1' - 0"$

NOTES:
For General Notes see Str. Sh. I.

CONNECTICUT DEPARTMENT OF TRANSPORTATION			
ENFIELD			
INTERSTATE ROUTE 91 OVER GRAPE BROOK			
BOX CULVERT DETAILS			
ENGINEER FRANKLAND & LIENHARD CONSULTING ENGINEERS			
DESIGNER H. S.	DRAFTER J. N.	CHECKER I. S.	
APPROVED <i>J. Hyman Lepkavich</i>		DATE 6-27-34	
STRUCTURE NO. 48-138-202		BRIDGE LOG NO.	STRUCTURE SHEET NO. 4 of 9

202

48-138

304-01

TOWN(S):

ENFIELD

DRAWING TITLE:

**EXISTING BR. NO. 05578
STRUCTURE DRAWING - 4**

PROJECT NO.:

0048-0200	SHE
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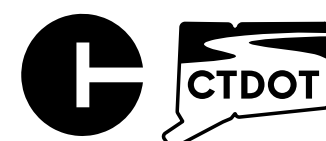
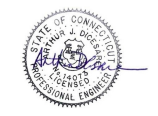
DRAWING NO.:

FIO-05

SIGNATURE BLOCK:

ADA

A.DiCesare Associates, P.C.
690 Clinton Avenue
Bridgeport, CT 06604
203-696-0444
www.adicesarepc.com



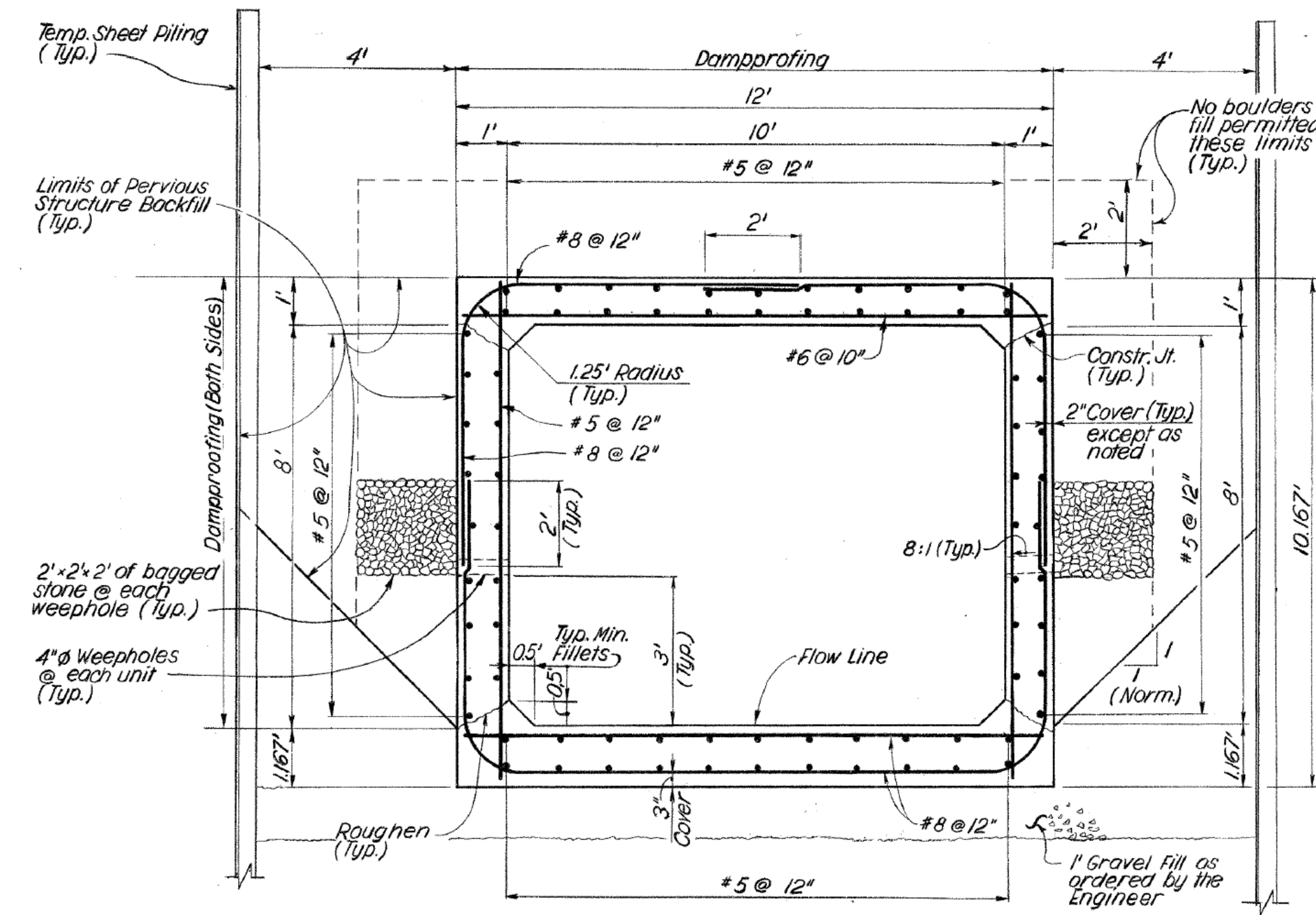
CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

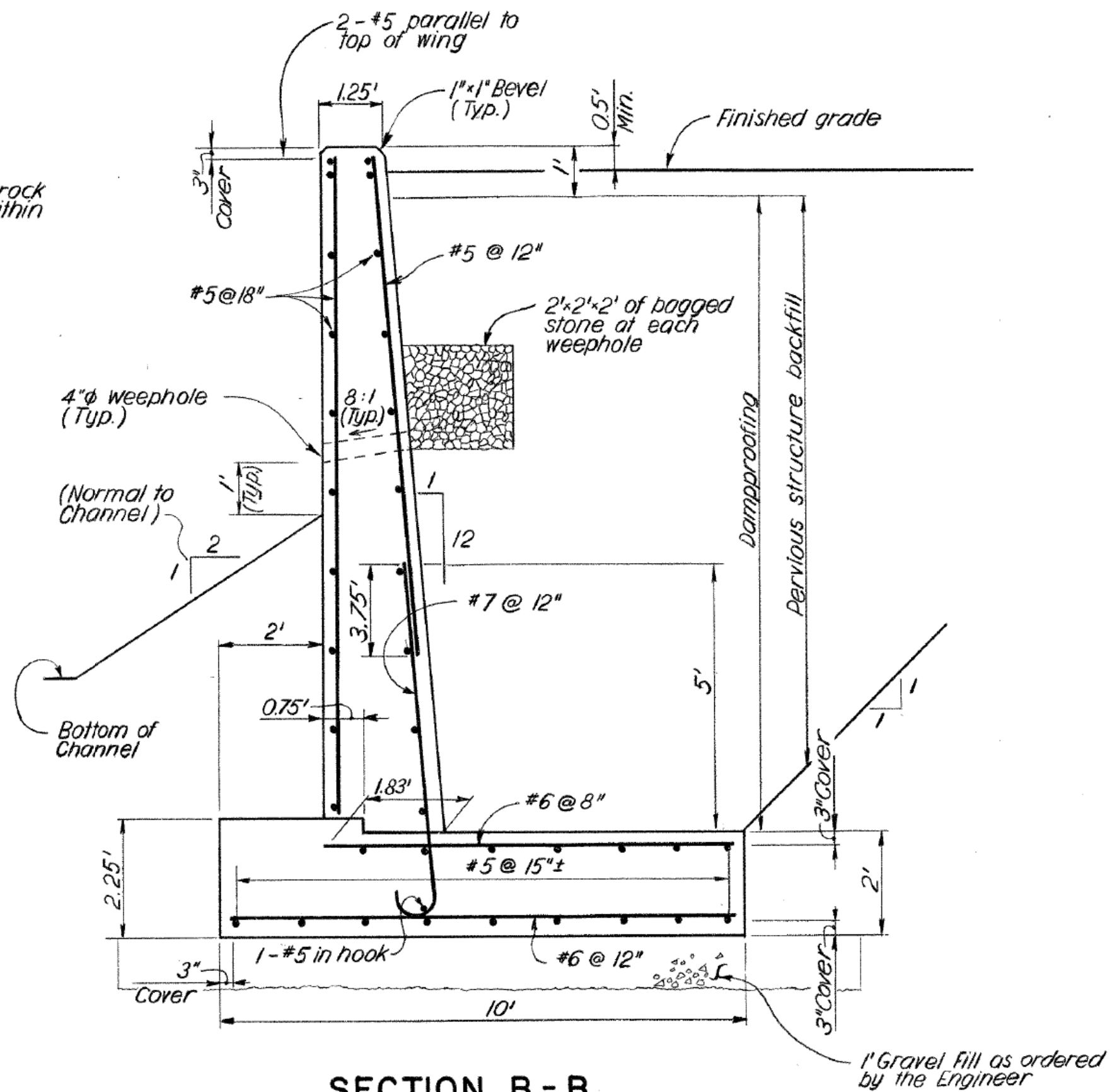
REPLACEMENT OF BRIDGE NO. 05585 - INTERSTATE 91 OVER GRAPE BROOK

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PLOTTED DATE: 6/24/2025

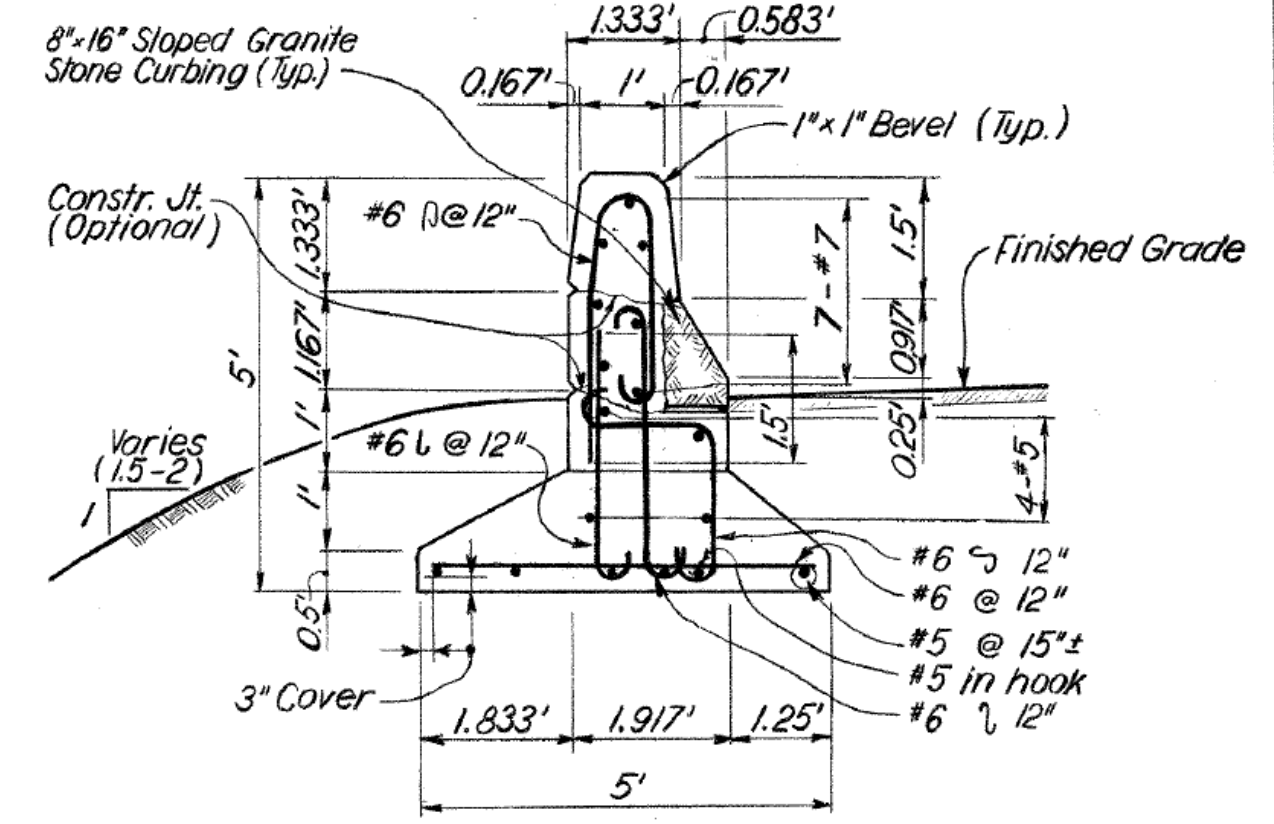
DATE	STATE	TOWN	PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1-1-84	CONN.	ENFIELD	48-138	105-53	1984	1-91	203	409



TYPICAL BOX CULVERT SECTION
Scale: 1/2" = 1'-0"



SECTION B-B
Scale: 1/2" = 1'-0"

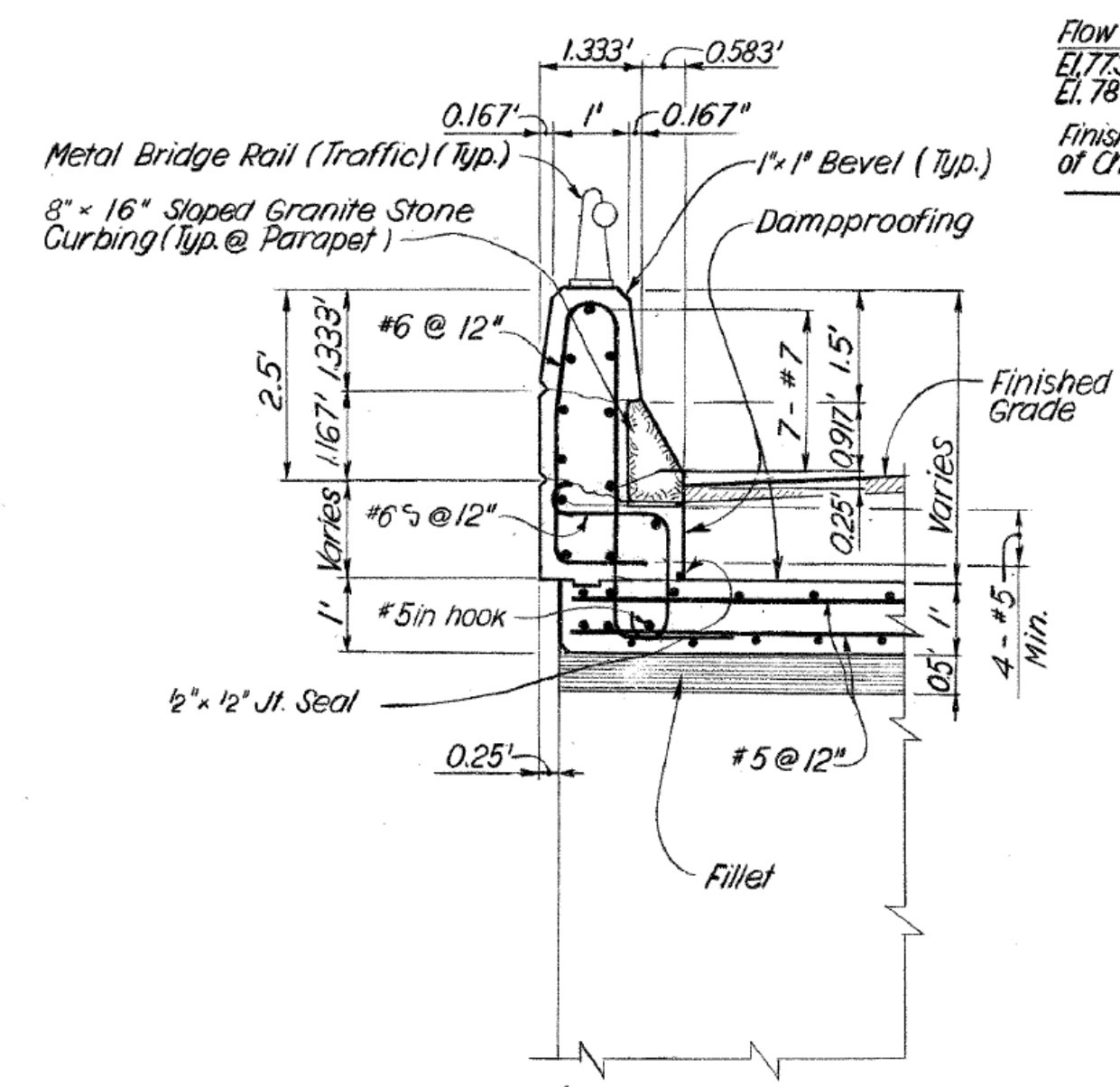


Note: Metal Bridge Rail not shown.

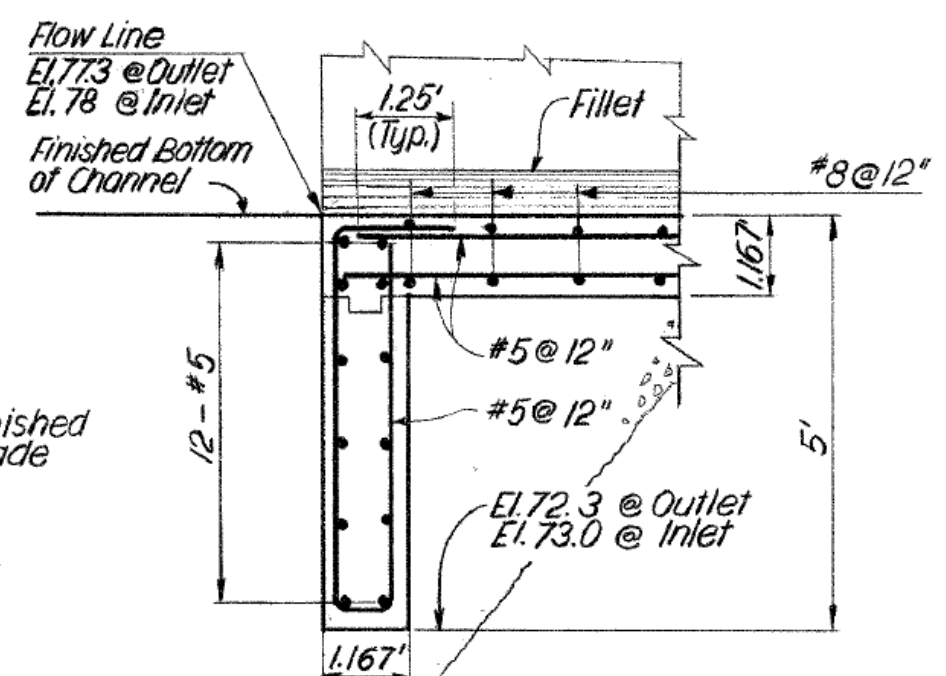
TYPICAL PARAPET SECTION
Scale: 1/2" = 1'-0"

NOTES:

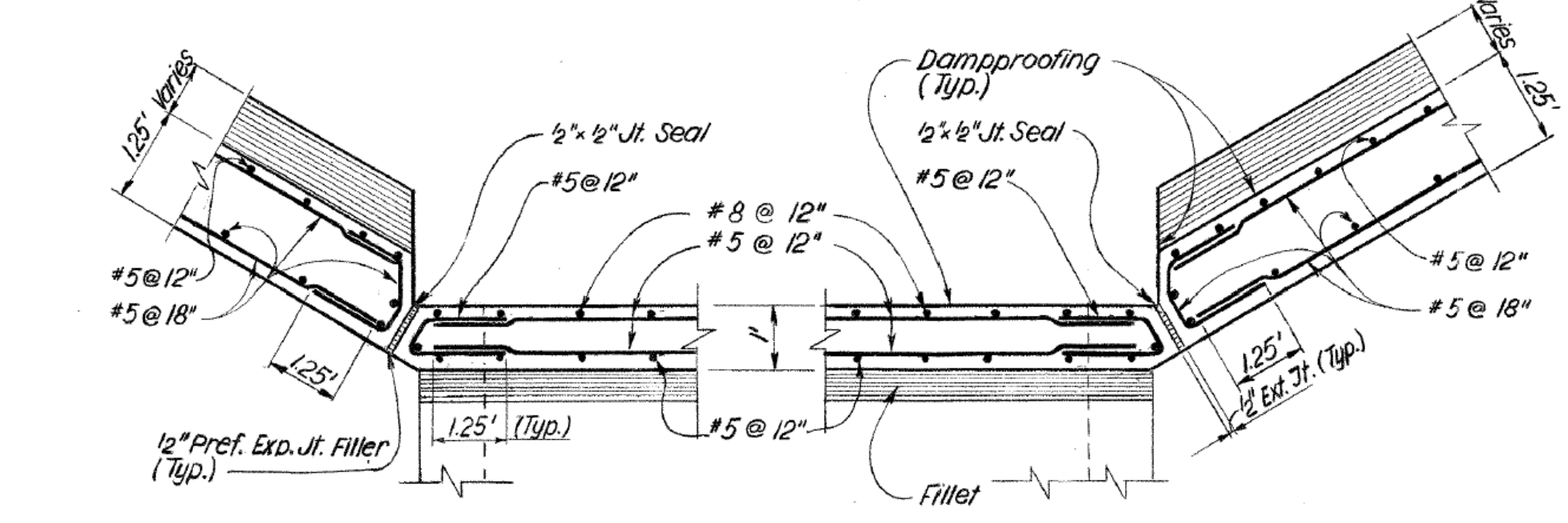
For General Notes see Str. Sh. 1.
For Location of Sections B-B through F-F see Str. Sh. 3.
Reinforcing to have 2" cover except where shown otherwise.



SECTION C-C
Scale: 1/2" = 1'-0"

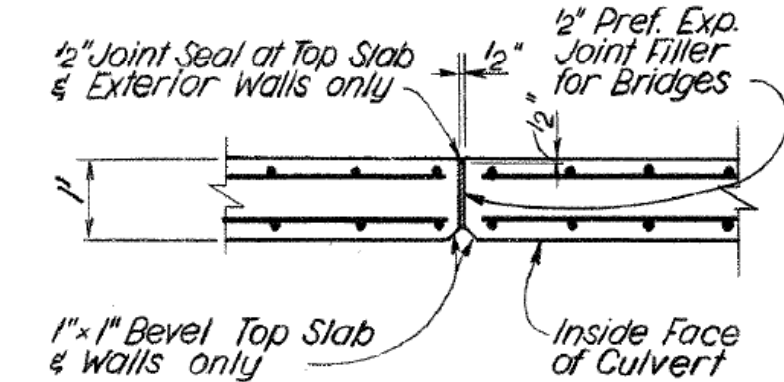


SECTION D-D
Scale: 1/2" = 1'-0"

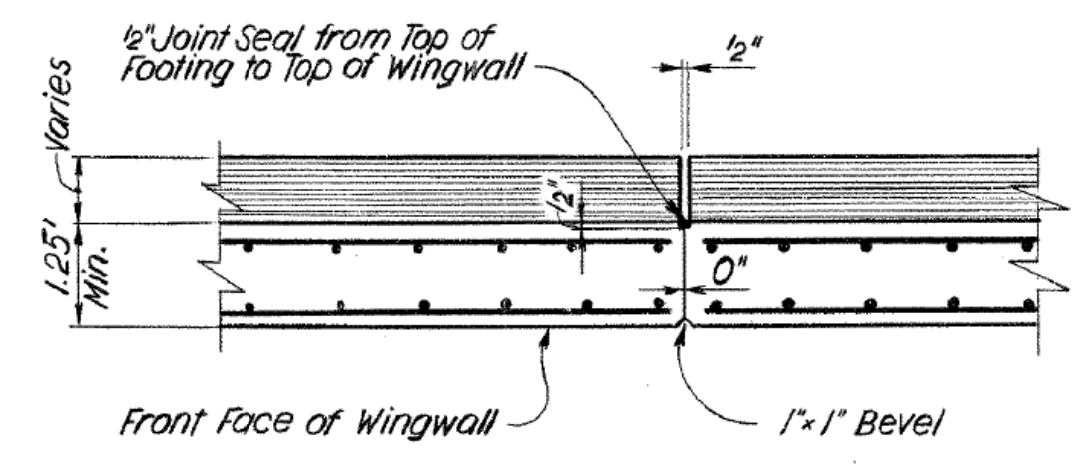


SECTION E-E
Scale: 1/2" = 1'-0"

SECTION F-F
Scale: 1/2" = 1'-0"



EXPANSION JOINT DETAIL
Scale: 1/2" = 1'-0"



CONTRACTION JOINT DETAIL
Scale: 1/2" = 1'-0"

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CONNECTICUT DEPARTMENT OF TRANSPORTATION			
ENFIELD			
INTERSTATE ROUTE 91 OVER GRAPE BROOK			
BOX CULVERT DETAILS			
ENGINEER	FRANKLAND & LIENHARD CONSULTING ENGINEERS		
DESIGNER	H.S.	DRAFTER	J.M.
CHECKER	I.S.		
APPROVED	[Signature]		DATE 6-27-83
STRUCTURE NO.	48-138-202	BRIDGE LOG NO.	5-0-2

48-138

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