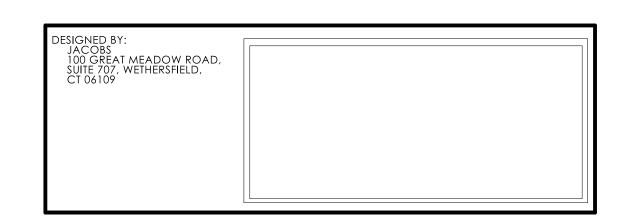
	SUBSET 04 - STRUCTURES INDEX OF DRAWINGS
DRAWING NUMBER	DRAWING TITLE
S-01	INDEX OF DRAWINGS
S-02	GENERAL NOTES
S-03	GENERAL PLAN AND ELEVATION
S-04	WATER HANDLING AND STAGING PLAN - 1
S-05	WATER HANDLING AND STAGING PLAN - 2
S-06	BORING LOGS - SHEET 1 OF 2
S-07	BORING LOGS - SHEET 2 OF 2
S-08	U/S WINGWALL -PLAN, ELEVATIONS, AND TYPICAL REINFORCEMENT
S-09	D/S WINGWALL -PLAN, ELEVATIONS, AND TYPICAL REINFORCEMENT
S-10	BOX CULVERT PLAN, GEOMETRY AND REINFORCEMENT DETAILS
S-11	BOX CULVERT HEADWALL AND DETAILS
S-12	APPROACH SLAB AND DETAILS
S-13	CONCRETE CUTOFF WALL
S-14	METAL BRIDGE RAIL DETAILS - 1
S-15	METAL BRIDGE RAIL DETAILS - 2



CONNECTICUT DEPARTMENT OF TRANSPORTATION

SCALE = FULL

REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER THE MATTABESSET RIVER

TOWN(S):

**BERLIN** 

DRAWING TITLE: INDEX OF DRAWINGS

PROJECT NO.:

DRAWING NO.:
S-01 0007-0266 SHEET NO.: 04.01

Design\Bridge\Construct\_Plans\SB\_CP\_0007\_0266\_GeneralSubset.dgn
PLOTTED DATE:

DESIGNER/DRAFTER: T. CHATTERJEE CHECKED BY: B. CHAMBERLIN

### GENERAL NOTES

### SPECIFICATIONS:

CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES, AND INCIDENTAL CONSTRUCTION (FORM 819) SUPPLEMENTAL SPECIFICATIONS DATED JANUARY, 2025 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE SPECIFICATIONS (NINTH EDITION) 2020) AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE AND ROADWAY STRUCTURES DESIGN MANUAL, RELEASE 1.1.

#### MATERIAL STRENGTHS:

### CONCRETE:

CLASS PCC03340 f'c = 3,000 PSI CLASS PRC05060 f'c = 5,000 PSI CLASS PCC04462 f'c = 4,000 PSI

THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, I'C, OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF THE FORM 819 SECTION 6.01 "CONCRETE FOR STRUCTURES", AND M.03 "PORTLAND CEMENT CONCRETE", M.14 "PREFABRICATED CONCRETE MEMBERS", AND SPECIAL PROVISIONS.

### REINFORCEMENT:

ASTM A615 GRADE 60, fy = 60,000 PSI

## LIVE LOAD:

HL-93, LEGAL, & PERMIT VEHICLES

#### FUTURE PAVING ALLOWANCE:

NONE

## BITUMINOUS CONCRETE OVERLAY:

2" HMA S0.5 4" HMA \$1.0 (TRAFFIC LEVEL 2) 10" PROCESSED AGGREGATE BASE

#### DIMENSIONS:

WHEN DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

## EXISTING DIMENSIONS:

DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY, THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

# UTILITIES:

UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS AND SHALL BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL WORK RELATED TO UTILITY PROTECTION WITH THE RESPECTIVE UTILITY COMPANIES.

## **DEWATERING:**

BEFORE INITIATING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL THAT DEFINES THE METHODS AND MATERIALS FOR CONTROLLING STREAM WATER DEWATERING, STRUCTURE EXCAVATION, AND PROTECTING THE STREAM DURING CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "HANDLING WATER" AND "COFFERDAM AND DEWATERING."

## DEMOLITION:

THE CONTRACTOR SHALL SUBMIT DEMOLITION PROCEDURES PRIOR TO THE REMOVAL OF THE EXISTING STRUCTURE.

## TRAFFIC:

SIGNATURE BLOCK

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR "MAINTENANCE AND PROTECTION OF TRAFFIC" AND FORM 819 SECTION 1.08 "PROSECUTION AND PROGRESS."

HYDRAULIC SUMA	MARY DATA			
DRAINAGE AREA	8.9 SQ	. MILES		
DESIGN FREQUENCY	100 \	'EARS		
DESIGN DISCHARGE	2,880 CFS			
AVERAGE DAILY FLOW ELEVATION	117.6 FT			
DESIGN SURFACE WATER ELEVATION	UPSTREAM	DOWNSTREAM		
DESIGN SURFACE WATER ELEVATION	126.5 FT	123.3 FT		

#### NOTICE TO BRIDGE INSPECTORS

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE), THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.

COMPONENT OR DETAIL	DRAWING NUMBER REFERENCE
NONE	-

## WATERCOURSE RESTRICTION:

UNCONFINED IN-STREAM IN-WATER ACTIVITIES MUST BE LIMITED TO THE TIME PERIOD JUNE 1 THROUGH SEPTEMBER 30.

## NATIVE STREAMBED MATERIAL:

CONNECTICUT

**DEPARTMENT OF** 

NATIVE STREAMBED MATERIAL EXCAVATED SHALL BE STOCKPILED AND THEN REPLACED WITHIN DISTURBED AREAS AND SUPPLEMENTAL STREAMBED CHANNEL MATERIAL AT INLET AND OUTLET TO THE DEPTH SHOWN ON THE PLANS, AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH THE PERMIT DOCUMENTS.

THE STOCK PILE SHALL BE LOCATED OUTSIDE THE WETLAND LIMITS AND PROTECTED WITH SEDIMENTATION CONTROL SYSTEM.

## **BRIDGE PLACARDS:**

THE SIGN IS 4" X 12" ALUMINUM SHEET METAL WITH WHITE REFLECTIVE LETTERS ON A GREEN REFLECTIVE BACKGROUND WITH FIVE (5) NUMERALS (06955). IT SHALL BE INSTALLED ON THE SAME GUIDE RAIL POSTS THAT THE STREAM CROSSING SIGNS ARE MOUNTED. ALL COSTS ASSOCIATED WITH PROCURING AND INSTALLING THE BRIDGE PLACARDS SHALL BE COVERED UNDER "SIGN FACE - SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING)". THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
NORTH CULVERT	22'-0''	3'-3"	11'-0"	42,000 LB
NORTH CULVERT	22'-0''	3'-0''	11'-0"	38,000 LB
SOUTH CULVERT	22'-0''	3'-3"	8'-6"	39,000 LB
SOUTH CULVERT	22'-0''	3'-0''	8'-6"	36,000 LB

## CONCRETE NOTES

THE FOLLOWING PAY ITEMS AND CONCRERE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS.

ITEM	BRIDGE COMPONENT	
ABUTMENT AND WALL CONCRETE	WINGWALL STEMS, BARRIER WALL STEMS	PCC03340
FOOTING CONCRETE	WINGWALL FOOTINGS, BARRIER WALL FOOTINGS	PCC03340
APPROACH SLAB CONCRETE	APPROACH SLAB	PCC04462
PRECAST CONCRETE	PRECAST CULVERT, CUTOFF WALLS, RETURN WALLS, NOSE WALLS AND HEADWALLS	PRC05060
PARAPET CONCRETE	RAIL BASE	PCC04462

### **REMAIN-IN-PLACE FORMS:**

THE USE OF REMAIN-IN-PLACE FORMS ON THIS PROJECT IS NOT ALLOWED.

### EXPOSED EDGES:

EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE.

### CONCRETE COVER:

ALL REINFORCEMENT SHALL HAVE 3 INCHES COVER UNLESS DIMENSIONED OTHERWISE.

### PREFORMED EXPANSION JOINT FILLER:

THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE ITEM 1" OR ½" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES" AS APPLICABLE.

## JOINT SEAL:

SEE SPECIAL PROVISIONS.

### REINFORCEMENT:

ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THE REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED".

## CONSTRUCTION JOINTS:

CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

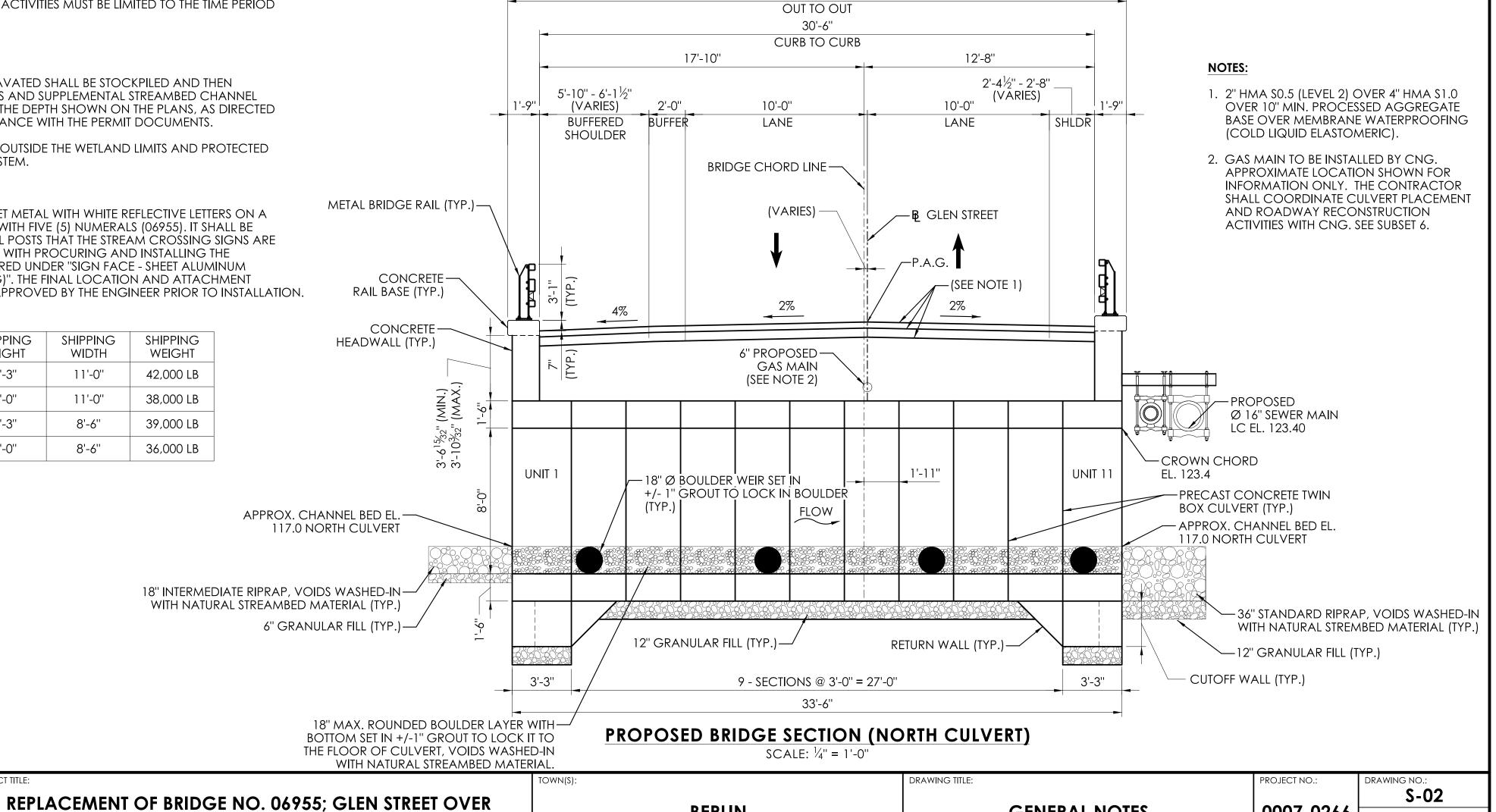
### PRECAST BOX CULVERT NOTES:

- 1. THE CONTRACTOR SHALL MANUFACTURE, AND CONSTRUCT PRECAST BOX CULVERT IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR "PRECAST CONCRETE BOX CULVERT" AND THE DIMENSIONS, LENGTH, AND DETAILS SHOWN ON THESE PLANS.
- 2. ALL INSERT OR HOLES CAST INTO THE CULVERT SECTIONS FOR THE SOLE PURPOSE OF HANDLING AND SETTING THE UNITS SHALL BE GROUTED OVER TO A SMOOTH FINISH UPON COMPLETION OF THE WORK.
- 3. ALL REINFORCEMENT TO HAVE 2" COVER UNLESS OTHERWISE NOTED.
- 4. BOX SEGMENT LENGTHS SHOWN ARE SUGGESTED. CONTRACTOR MAY VARY SEGMENT LENGTHS IN ORDER TO STAGE THE CONSTRUCTION SUBJECT TO APPROVAL OF THE ENGINEER, HOWEVER THE OUT-TO-OUT LENGTH AND LAYOUT SHALL BE ACHIEVED.
- 5. THE WORK REQUIRED WILL INVOLVE CONSTRUCTION ACTIVITIES IN AREAS THAT MEET THE DEFINITION OF A "CONFINED SPACE". THE COST OF THE REQUIRED SAFETY PROGRAM WILL BE PAID UNDER THE ITEM "CONFINED SPACE HEALTH AND SAFETY".

**GENERAL NOTES** 

0007-0266 SHEET NO

**04.02** 

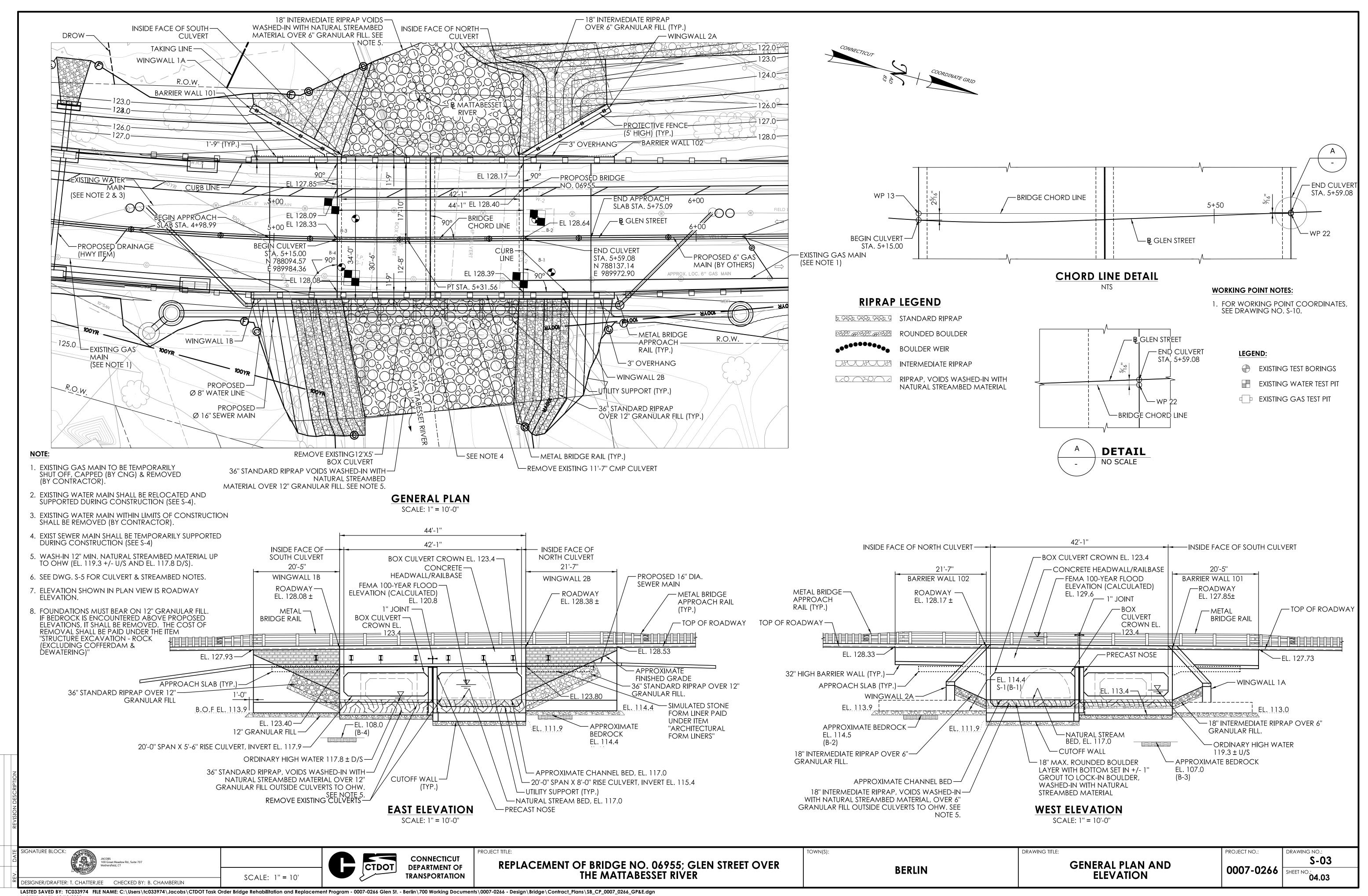


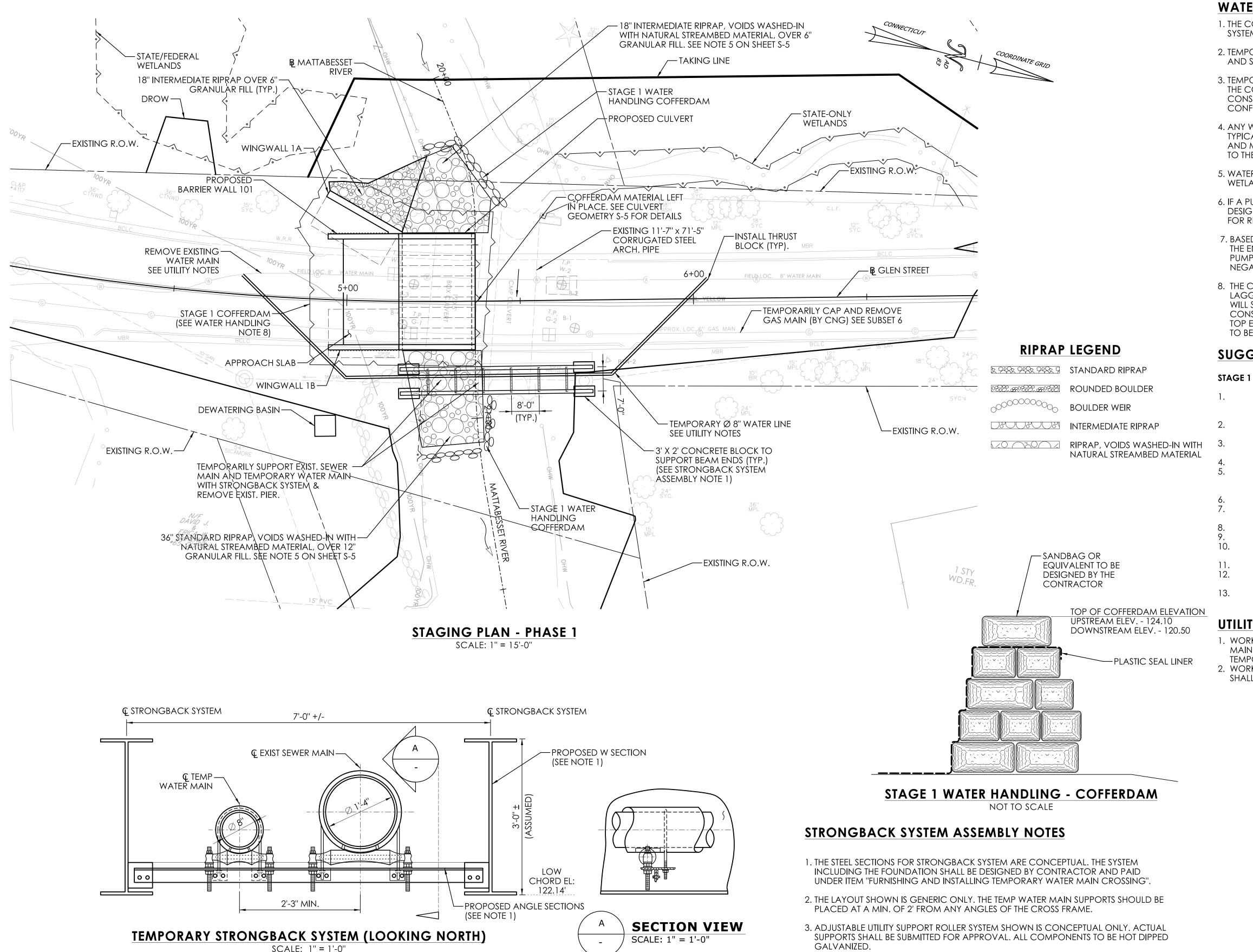
**BERLIN** 

34'-0"

**MATTABESSET RIVER TRANSPORTATION** SCALE AS NOTED DESIGNER/DRAFTER: T. CHATTERJEE CHECKED BY: B. CHAMBERLIN LASTED SAVED BY: SMITHC16 FILE NAME: C:\Users\SMITHC16\Jacobs\CTDOT Task Order Bridge Rehabilitation and Replacement Program - 0007-0266 Glen St. - Berlin\700 Working Documents\0007-0266 - Design\Bridge\Contract\_Plans\SB\_CP\_0007\_0266\_Notes.dgn **PLOTTED DATE:** 10/21/2025

CTDOT





**TRANSPORTATION** 

SCALE AS NOTED

## WATER HANDLING NOTES

- 1. THE CONTRACTOR SHALL MAINTAIN WATER THROUGH THE TEMPORARY WATER HANDLING SYSTEM AS REQUIRED DURING CONSTRUCTION OF THE NEW STRUCTURE.
- 2. TEMPORARY DEWATERING BASINS SHALL BE ESTABLISHED OUTSIDE OF THE WETLAND LIMITS AND SHALL BE PAID UNDER ITEM "HANDLING WATER."
- 3. TEMPORARY WATER-HANDLING-COFFERDAM SHALL CONSIST OF AN APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA, SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND SHALL CONFORM TO PERMITS. TO BE PAID UNDER ITEM HANDLING WATER.
- 4. ANY WATER HANDLING SCHEME DEPICTED WITHIN THE DEPARTMENT'S "HANDLING WATER TYPICAL SCHEMATICS" MAY BE UTILIZED UNLESS SPECIFICALLY PROHIBITED. A MEANS AND METHOD FOR WATER HANDLING SYSTEM SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL
- 5. WATER HANDLING MEASURES SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND WATERCOURSE IMPACT SHEET OF THE PERMIT PLANS.
- 6. IF A PUMP SYSTEM IS PROPOSED DURING LOW FLOW CONDITIONS, THE PUMP SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR. PUMP SYSTEM PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 7. BASED UPON FIELD CONDITIONS, WORK DURATION, AND EXPECTED WEATHER CONDITIONS, THE ENGINEER MAY APPROVE A CONSTRUCTION WATER HANDLING PLAN WITH LOWER PUMPING FLOWS. PROVIDED THAT THIS INCLUDES A CONTINGENCY PLAN, WHICH MINIMIZES NEGATIVE IMPACTS AND SAFELY CONVEYS LARGER FLOWS THROUGH THE WORK AREA.
- 8. THE COFFERDAM SHALL CONSIST OF THE SHEETING OR DRILLED SOLDIER PILES WITH TIMBER LAGGING OR ANY OTHER APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA, BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND EXCAVATION AND SHALL CONFORM TO PERMITS. THE MINIMUM TOP ELEVATION OF THE COFFERDAM SHALL BE 124.1 (UPSTREAM) AND 120.5 (DOWNSTREAM). TO BE PAID UNDER ITEM "COFFERDAM AND DEWATERING".

## SUGGESTED SEQUENCE OF CONSTRUCTION

- CONDUCT PRE-CONSTRUCTION CONDITION SURVEY AT 215 ROBINDALE DRIVE AND 85 GLEN STREET. THIS WORK SHALL BE PAID UNDER "CONDITION SURVEY (SITE NO. 1)".
- INSTALL CRACK MONITORS, DEFORMATION MONITORING POINTS, AND VIBRATION MONITORS. FOR DETAILS, SEE HIGHWAY DRAWING GMP - 1
- INSTALL EROSION AND SEDIMENTATION CONTROL SYSTEM. REMOVE INVASIVE SPECIES. CLEAR AND GRUB.
- ESTABLISH PROPOSED DETOUR. CLOSE ROADWAY.
  - INSTALL TEMPORARY STRONGBACK UTILITY SUPPORT SYSTEM. SUPPORT EXISTING SEWER LINE. REMOVE EXISTING PIER. INSTALL TEMPORARY WATER LINE TO STRONGBACK UTILITY SUPPORT SYSTEM.
- REMOVE METAL BEAM GUIDE RAIL ALONG BOTH ROADWAY EDGES TO THE LIMIT SHOWN INSTALL STAGE 1 WATER HANDLING COFFERDAM AT THE INLET AND OUTLET OF THE SOUTH CULVERT BARREL TO DIVERT FLOW TO NORTH CULVERT. INSTALL DEWATERING BASIN.
- INSTALL STAGE 1 COFFERDAM AND DEWATERING.
- EXCAVATE AND REMOVE EXISTING SOUTH CULVERT.
- CONSTRUCT SOUTH CELL OF PROPOSED BOX CULVERT, WINGWALLS 1A AND 1B, AND BARRIER WALL 101.
- BACKFILL. INSTALL APPROACH SLAB.
- PLACE COFFERDAM MATERIAL AT THE BASE OF THE SOUTH CULVERT TO RETAIN GRANULAR FILL AND EXCAVATION. INSTALL RIPRAP.
- REMOVE STAGE 1 COFFERDAM AND WATER HANDLING COFFERDAM NOT REQUIRED FOR STAGE 2.

# **UTILITY NOTES**

- 1. WORK ASSOCIATED WITH INSTALLATION OF TEMPORARY WATER MAIN SHALL BE PAID UNDER ITEM. "FURNISHING AND INSTALLING TEMPORARY WATER MAIN CROSSING" (SEE SPECIAL PROVISIONS)
- 2. WORK ASSOCIATED WITH REMOVAL OF EXISTING WATER MAIN SHALL BE PAID UNDER ITEM. "REMOVE WATER MAIN".

**STAGING PLAN - 1** 

TEMPORARY HYDRAULIC	DATA (PHASE 1)	
AVERAGE DAILY FLOW (ADF)	15	CFS
AVERAGE SPRING FLOW (ASF)	30	CFS
2-YEAR FREQUENCY DISCHARGE	350	CFS
TEMPORARY DESIGN DISCHARGE	350	CFS
TEMPORARY DESIGN FREQUENCY	2-Y	EAR
TEAADODA DV MATED CUDEA OF ELEVATION	UPSTREAM	DOWNSTREAM
TEMPORARY WATER SURFACE ELEVATION	123.1 FT	119.5 FT

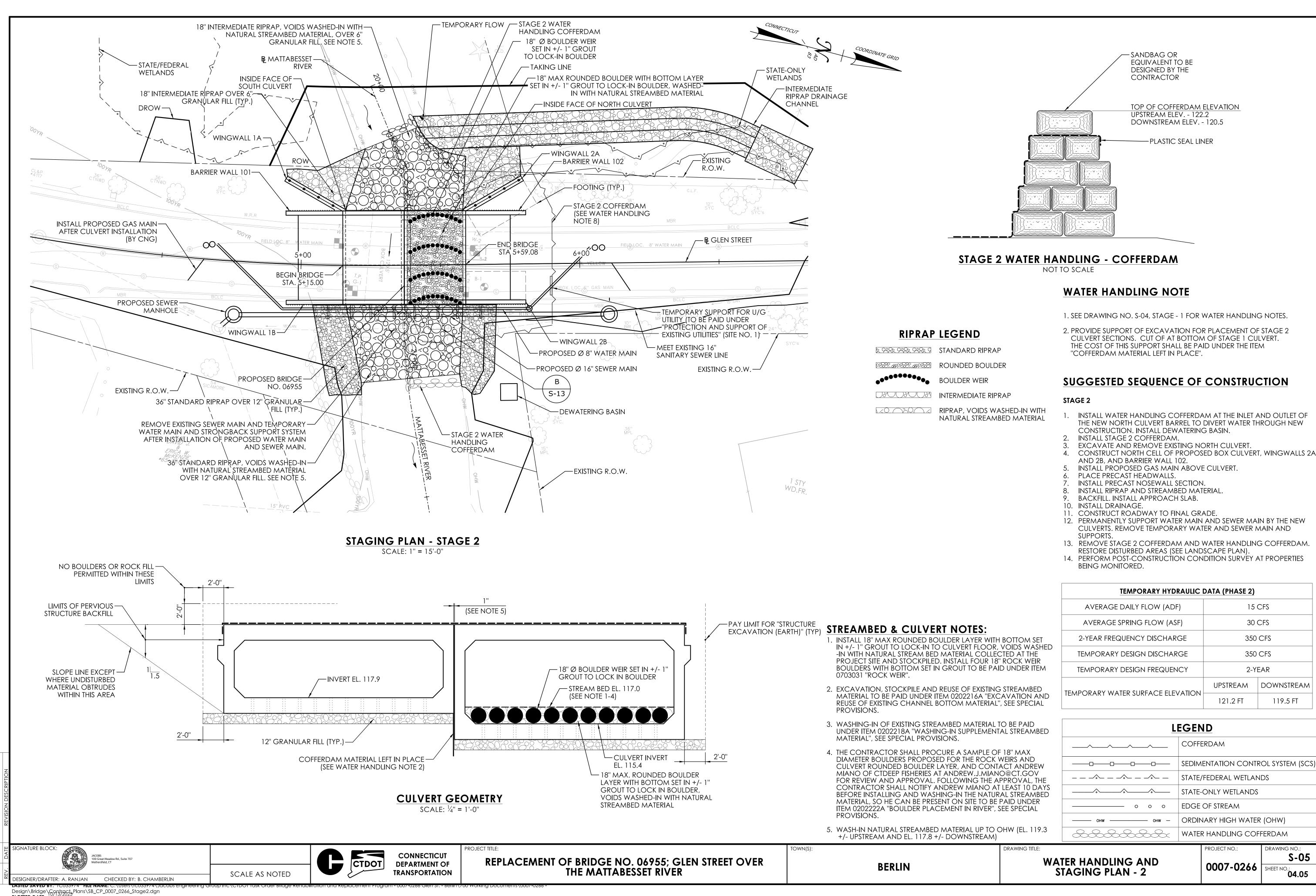
<u>L</u>	EGEND
	COFFERDAM
	SEDIMENTATION CONTROL SYSTEM (SCS)
	STATE/FEDERAL WETLANDS
	STATE-ONLY WETLANDS
	EDGE OF STREAM
—— он <b>w</b> — он <b>w</b> —	ORDINARY HIGH WATER (OHW)
	WATER HANDLING COFFERDAM
	·

Ö4.04

SCALE: 1" = 1'-0" 4. RESTRAINED JOINT CLASS 54 WATER MAIN WITH 2 INCH RIGID INERT FOAM INSULATION WITH METAL FIBER REINFORCED MASTIC OR NON-CORROSIVE METAL JACKET (TYP.) DRAWING TITLE: PROJECT NO.: DRAWING NO.: town(s): CONNECTICUT **S-04** REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER WATER HANDLING AND CTDOT **DEPARTMENT OF BERLIN** 0007-0266 SHEET NO

THE MATTABESSET RIVER

CHECKED BY: B. CHAMBERLIN



PROJECT NO.: DRAWING NO. **S-05** 0007-0266 SHEET NO **04.05** 

SEDIMENTATION CONTROL SYSTEM (SCS)

15 CFS

30 CFS

350 CFS

350 CFS

2-YEAR

UPSTREAM

STATE/FEDERAL WETLANDS

ORDINARY HIGH WATER (OHW)

WATER HANDLING COFFERDAM

STATE-ONLY WETLANDS

**EDGE OF STREAM** 

**LEGEND** 

COFFERDAM

DOWNSTREAM

119.5 FT

Driller:		(. Smi			<del></del>		OHIH		ut DOT Bori	Hole No.:	B-1		
Inspec		1. Cyr				Town:	NI-	Berlin			Stat./Offset:	15+66/8	
Engine		McC		е		Project				Northing:	788145		
Start D		-18-2				Route N			Street	Easting:	989978		
	Date: 5 Descript			 Stree		Bridge I Ige 069		0695	ט		Surface Elev	ation: 128.4	
	Size/Ty							e/Size:	1-3/8 inch ID		Core Barrel 7	Гуре: NX	
	er Wt.: 3					Hamme	er Wt.:	140lk	Fall: 30in.				
Ground	dwater O	bserva							I	I			<u> </u>
		1	,	SAMI	PLES	;	1	1	- 6 <u>-</u>				Œ
Depth (ft)	Sample Type/No.	ļ ŗ		vs on npler inche		Pen. (in.)	Rec. (in.)	Rec. (in.)  ROD %  Strata  Strata  Description  and Notes				otion	Elevation
0-									Asphalt	ASPHALT, (0-11	eet)		
_	S-1	27	10	7	7	24	8		Misc. Fill	Red f SAND, sor	,	some silt	
_	J-1		10	,	,								
_	S-2	5	8	8	5	24	12			Red f SAND, sor	ne c-f gravel, s	some silt	—125 —
5— -	S-3	7	7	7	7	24	8			Red f SAND, sor	ne silt, trace f	gravel	_
_	S-4	4	8	10	11	24	14			Red f SAND, sor	ne c-f gravel, s	some silt	
_													-120
10-	S-5	20	12	9	8	24	10			m-f Red e-f GRAVEL	C-f and f SAND,	some silt	_
	S-6	7	34	27	87	24	18			Red f SAND, sor	ne c-f gravel, s	some silt, Top 9	-
_	3-0	′	34	21	01	24	10		Glacial Till	inches Gray c-f GRAVE	L, Bottom 9 in	ches	_ 115
_	S-7	<u> </u>	50/3'	•		3	0		Bedrock	Gray c-f GRAVE	L, little silt, Fro	m tip	
15—													-
- - -	C-1					60	58	67		Gray, BASALT, f moderately fracti strong, 0° to 60°	ired, highly we	athered, medium	_ _ 110
20-													
_													
_										Gray, BASALT, f			
_	C-2					60	41	37		slightly fractured strong, 0° to 75°	, highly weathe bedding angle	red, medium . 2-3.5-3-4 5-3 5	105
_										23g, 0 10 70		, _ 1.1 0 1.0 0.0	<u>105</u>
25—													_
_										END OF BORIN	G 25ft		
		Samr	ole Tv	me.	S = 5	 Split Sr	) OOON	C = 0	Core UP = U	 ndisturbed Piston	V = Vane 9	Shear Test	
		-	-	-		-				)%, Some = 20 -			
Total P	enetratio	n in				NOT	ΓES: [	OTE E	DITS (BASED C	N LAB TESTING F	RESULTS)	She 1 of	
Earth:	14ft		: 11ft	Ĺ								101	•
No. of	mples: 7		lo. of ore R		2							SM-001-M F	

Driller:		K. Smi	th/M.	St. J	ohn	C	onne	ecticu	ıt DOT Bor	ing Report	Hole No.: B-2	<u>.                                    </u>	
Inspect	tor:	M. Cyr				Town:		Berlir	า		Stat./Offset: 15+	-62/4	
Engine	er:	A. McC	Caulif	fe		Project	No.:	007-2	266		Northing: 788	3138	
Start D	ate:	5-19-2	3			Route I	No.:	Glen	Street		Easting: 989	9967	
Finish [	Date:	5-22-2	3			Bridge	No.:	0695	5	Surface Elevation	: 128.5		
Project	Descri	ption:	Glen	Stree	t Bri	dge 06	955						
Casing	Size/T	уре: 4-	n. Ca	sing		Sample	г Туре	e/Size:	1-3/8 inch ID	)	Core Barrel Type:	NX	
Hamme	er Wt.:	300lb	Fall:	30in		Hamme	er Wt.:	140lb	Fall: 30in.				
Ground	lwater (	Observa		Not									
Depth (ft)	Sample Type/No.	· K	Blov	vs on		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	terial Description and Notes		Elevation (ft)
0-									Asphalt	ASPHALT, (0-1 f	eet)		
-	S-1	23	12	9		18	12		Misc. Fill	Red f SAND, some c-f gravel, some silt (driller took 18" sample to begin next sample at an even interval)			_
-	S-2	6	7	7	6	24	12			m-f Red e-f GRAVE	<mark>C-f</mark> L and f SAND, little	silt	- -125
5—	S-3	4	8	13	9	24	10			Red f SAND, sor	ne c-f gravel, some	silt	-
_	S-4	6	6	4	5	24	13			Red f-c SAND, s	ome c-f gravel, som	ne silt	-
													-120 -
10-	S-5	4	3	1	5	24	8			Red f-c SAND, s	ome c-f gravel, som	ne silt	_
-									Bedrock		start of bedrock due g pressure needed	to an	- -115
15— - -										Driller indicated prock based on dr	ootential weathered illing effort	or fractured	_
20-	C-1					60	54	40		moderately fractu	ine, intensely fractu ıred, completely we )° to 45° bedding ar	athered,	
-										U-U-4-4.U-4			_ 105
25—			-	•						│ ndisturbed Piston 0%, Some = 20 -			
Total P			:: 14f	t		NO	ΓES: <mark>C</mark>	TE EC	DITS (BASED C	ON LAB TESTING R	RESULTS)	She 1 of	
No. of Soil Sa			o. of ore R										REV. 1/0

Driller:		K. Smith/M. St. John	C	onne	ecticu	ıt DOT Boriı	Hole No.:	3-2		
Inspect	or:	M. Cyr	Town:		Berlir	า		Stat./Offset: 1	15+62/4	
Engine	er:	A. McCauliffe	Project	No.:	007-2	266		Northing: 7	788138	
Start D		5-19-23	Route N		Glen		989967			
		5-22-23	Bridge I		0695	5		Surface Elevati	ion: 128.5	
Project	Descri	ption: Glen Street Bri	idge 069	955						
		ype: 4-in. Casing				1-3/8 inch ID		Core Barrel Ty	pe: NX	
		300lb Fall: 30in.	Hamme	r Wt.:	140lb	Fall: 30in.				
rounc	iwater C	Dbservations: Not Red SAMPLE								
						zed				(Ħ)
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	terial Description	on	Elevation (ft)
25— - -	C-2		60	56	85	Bedrock (con't)	Gray, BASALT, t weathered, medit angle, 6-6-5-5-5	ine, highly fractuum strong, 0° to	ured, completely 30° bedding	-  -
30-							END OF BORING	3 28ft		100 
35—										- - -95 - - -
40— - - -										-90 - - -
45— - -										-85 - - - -
50										-80
		Sample Type: S = Proportions Used:	Trace =	1 - 1						
otal Parth:	enetrati 14ft	on in Rock: 14ft No. of	NOT	ΓES:					Shee 2 of	
NO. OI Soil Sa	mples:	5 Core Runs: 2							SM-001-M R	EV. 1/02

BORING - B1 BORING - B2 (1 OF 2) BORING - B2 (2 OF 2)

CONNECTICUT DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER THE MATTABESSET RIVER

DRAWING TITLE: BORING LOGS SHEET 1 OF 2

DRAWING NO.: S-06 0007-0266 SHEET NO.: 04.06

**BERLIN** 

Driller: Inspect		1. St. J 1. Cyr	VIIII		+	own:		Berli	ut DOT Bori	Hole No.: B-3 Stat./Offset: 15+	(OW)		
Engine		. McC	ouliff	·		roject		007-2		097			
Start D		-19-23		Е		Route N		Glen		978			
	Date: 5					Bridge I		0695		Surface Elevation:			
	Descript			Stroc				0033	<u> </u>		Surface Elevation.	120.1	
									4.0/6: 1.15			NIN/	
	Size/Ty								1-3/8 inch ID		Core Barrel Type:	NX	
	er Wt.: 3					lamme							
Ground	lwater O	oserva				1D, <u>a</u>	ווט ונו	anter 2					
Depth (ft)	SAMPLE  SAMPLE  Blows on  Sampler  per 6 inches			Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Mat	erial Description and Notes		Elevation (ft)		
0-									Asphalt	ACDUALT (0.1 fe	not)		+
1									-	ASPHALT, (0-1 fe	eci)		L
	S-1	15	19	15	12	24	4		Misc. Fill	Red c-f SAND, litt	tle c-f gravel, trace	silt, trace	
						- '	'			asphalt			101
T	6.3	4.4	0			24	4.4						-125
7	S-2	14	8	6	6	24	14			Red c-f SAND, litt	tle c-f gravel, little s	ılt	
5													<b> </b>
$\dashv$	S-3	2	4	5	6	24	10			Red c-f SAND, litt	tle c-f gravel, little s	ilt	-
+													-
4	S-4	4	5	7	7	24	6			Red c-f SAND, litt	tle c-f gravel, little s	ilt	-120
4													L
10													
10	<b>S</b> -5	2	2	4	3	24	7			D. LCOAND			Γ
	3-0	2	2	4	3	24	'			Red f SAND, som	ne f-m gravel, some	SIIT	
1		1							Sandy	1			<b> </b>
1									Gravel				-115
$\dashv$													-
15											c-f		-
4	S-6	3	4	3	5	24	6			Red c-f GRAVEL,	احا , little f sand, little si	ilt	-
4													
													-110
20													Γ
20	S-7	7	38		70/4"	16	4		Glacial Till	Gray c GRAVEL Driller indicated st	tart of bedrock due	to an	
7		-							Bedrock		pressure needed		
7													
$\dashv$													-105
$\dashv$													-
25						L							Ц
			•							ndisturbed Piston			
			tions	Use	ed: ⊤r					)%, Some = 20 -			
	enetratio					NOT Rise	TES: Ver from	Nell C	onstruction: We	ell set at 20 ft, scree 8-20 feet, Betonite	n from 10-20 feet, from 5-8 feet	She 1 of	
Earth: 2	21ft	Rock:				Spo	ils fron	n 1-5 f	eet, Roadbox a	and concrete from 0-	1 feet.	1.0	~
No. of Soil Sa	mples: 7		o. of ore R	uns: 1	2	DTE	EDIT	S (BA	SED ON LAB T	ESTING RESULTS)		SM-001-M F	REV. 1/
												3	

Driller:		1. St. John	С	onne		ıt DOT Borii		(OW)	
Inspec		1. Cyr	Town:		Berlir		Stat./Offset: 15+		
Engine		. McCauliffe	Project				Northing: 788		
Start D		-19-23	Route I			Street	Easting: 989		
	Date: 5	-19-23 tion: Glen Street Bi	Bridge		0695	5	Surface Elevation:	128.1	
						4.0/0: 1.15			
		oe: 3-in. Casing	Sample			1-3/8 inch ID Fall: 30in.	Core Barrel Type:	NX	
		00lb Fall: 30in. bservations: @10 ft					I		
Orcum	dwater Or	SAMPLE		21010	untor 2				æ
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)
25 –						Bedrock			_
-	1					(con't)			_
-	C-1		60	48	28		Gray, BASALT, fine, intensely fractur weathered, medium strong, 0° to 75° angle, Seams with orange discoloration 4-4-4-4.5	bedding	_ 100 
30 —									_
_									_
- -	C-2		60	44	73		Gray, BASALT, fine, highly fractured, weathered, medium strong, 0° to 45° angle, 5-6-5-5-5	slightly bedding	- 95 
35-							END OF BORING 35ft		
_									
_									- 00
									<del>-</del> 90
40									
40 —									_
_									_
_	1								_
_									<del>-85</del>
_	1								_
45 –	1								_
-	†								_
-	1								_
_	-								-80
-	1								_
50 —									
							ndisturbed Piston V = Vane Shear %, Some = 20 - 35%, And = 35 -		
Total P	enetratio	n in	NO	TES: \	Vell C	onstruction: We	Il set at 20 ft, screen from 10-20 feet,	Shee	
Earth:		Rock: 14ft	Spo	ils fron	n 1-5 f	eet, Sand from eet, Roadbox a	8-20 feet, Betonite from 5-8 feet, nd concrete from 0-1 feet.	2 of	2
No. of Soil Sa	amples: 7	No. of Core Runs: 2						SM-001-M RI	EV. 1/02

Driller: M. St. John					C	onne	cticu	ut DOT Bori	Hole No.: B-4				
Inspect	spector: M. Cyr				Т	Town:		Berlir	n	Stat./Offset: 15+16/7			
Engine	Engineer: A. McCauliffe				F	Project	No.:	007-2	266	Northing: 788097			
Start Date: 5-18-23				F	Route N	1o.:	Glen	Street	Easting: 989	990			
Finish I	Date: 5	-18-23	}		E	Bridge I	No.:	0695	5		Surface Elevation:	128.1	
Project	Descript	ion: C	∂len	Stree	t Brid	ge 069	955						
Casing	Size/Typ	pe: 3-ir	n. Ca	asing	5	Sample	r Type	Size:	: 1-3/8 inch ID		Core Barrel Type:	NX	
Hamm	er Wt.: 3	00lb	Fall	: 30in	i. F	Hamme	er Wt.:	140lb	b Fall: 30in.				
Ground	dwater Ob	oservat	tions	Not	Reco	orded							
	SAMPLES							+	70 -				€
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches				Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes		Elevation (ft)	
0-						+			Asphalt	ASPHALT, (0-1	feet)		肀
_	S-1	10	10	7	6	24	15		Misc. Fill		little c-f gravel, trace	silt.	-
- 5-	S-2	7	12	15	17	24	4			Red c-f SAND,	little c-f gravel, trace	silt.	-12 -
_	S-3	12	19	20	22	24	5			Red c-f SAND,	little c-f gravel, trace	silt.	
_	S-4	9	9	8	6	24	5			Red and black of silt	c-f SAND, some f-m g	gravel, trace	-12
10 — - -	<b>S</b> -5	6	6	19	18	24	13		Sandy Gravel	Red and brown some silt	C-f C f-m GRAVEL, some	s-f f sand,	  -  -  -
- 15-	2.2												-11 - -
	S-6	14	13	16	21	24	0			No recovery			<u> </u>
20-	S-7	84		50/1"	ı	7	4		Bedrock	Bedrock fragme	ents		-11 - -
- - 25-													_ 10
	F	Propor	-			race =	1 - 10	0%,	Little = 10 - 20	0%, Some = 20	n V = Vane Shear - 35%, And = 35 -	- 50%	
l	enetratio					NOT	res: D	)TE EI	DITS (BASED (	ON LAB TESTING	RESULTS)	She 1 of	
Earth: 2	20ft imples: 8		o. of			$\dashv$						SM-001-M F	

Driller:	M	C	onne	cticu	ng Report Hole No.: B-4			
Inspect	tor: M	Town:		Stat./Offset: 15+16/7	t: 15+16/7 788097 989990			
Engine	er: A.	Project	No.:	Northing: 788097				
Start D	ate: 5-	Route N	No.:	Easting: 989990				
Finish Date: 5-18-23			Bridge	No.:	Surface Elevation: 128.1	evation: 128.1		
Project	t Descripti	on: Glen Street B	ridge 069	955				
Casing	Size/Typ	e: 3-in. Casing	Sample	r Type	/Size:	1-3/8 inch ID	Core Barrel Type: NX	
Hamme	er Wt.: 30	00lb Fall: 30in.	Hamme	er Wt.:	140lb	Fall: 30in.		
Ground	dwater Ob	servations: Not Re	ecorded					
		SAMPLE	ES			2 _		€
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Flevation (#)
25	S-8	50/0"	U	0		Bedrock	No Recovery	+
$\dashv$						(con't)		-
_								-
4								L <sub>10</sub>
							Gray, BASALT, fine, intesenty fractured, slightly	
30-	C-1		60	52	55		weathered, medium strong, 0° to 60° bedding	
30							angle, Seams with orange discoloratio; 5-5-5-5-5	
1								<b> </b>
-								-95
4							Gray, BASALT, fine, highly fractured, slightly weathered, medium strong, 0° to 45° bedding	-
35-	C-2		60	57	90		angle, Seams with orange discoloration;	L
							5-5-5-5	
							END OF BORING 37ft	T
							END OF BORING 37IL	-90
┪								-
40 —								-
-								-
4								F
								-85
45-								
40-								
7								
$\dashv$								-
4								-80
4								F
50								
							ndisturbed Piston V = Vane Shear Test %, Some = 20 - 35%, And = 35 - 50%	
Total P	enetratior			TES:	-		She	et
Earth: 2						2 of		
No. of Soil Sa					SM-001-M R	REV. 1		

BORING - B3 (1 OF 2) BORING - B4 (2 OF 2) BORING - B4 (1 OF 2) BORING - B3 (2 OF 2)

SCALE AS NOTED

CONNECTICUT DEPARTMENT OF TRANSPORTATION

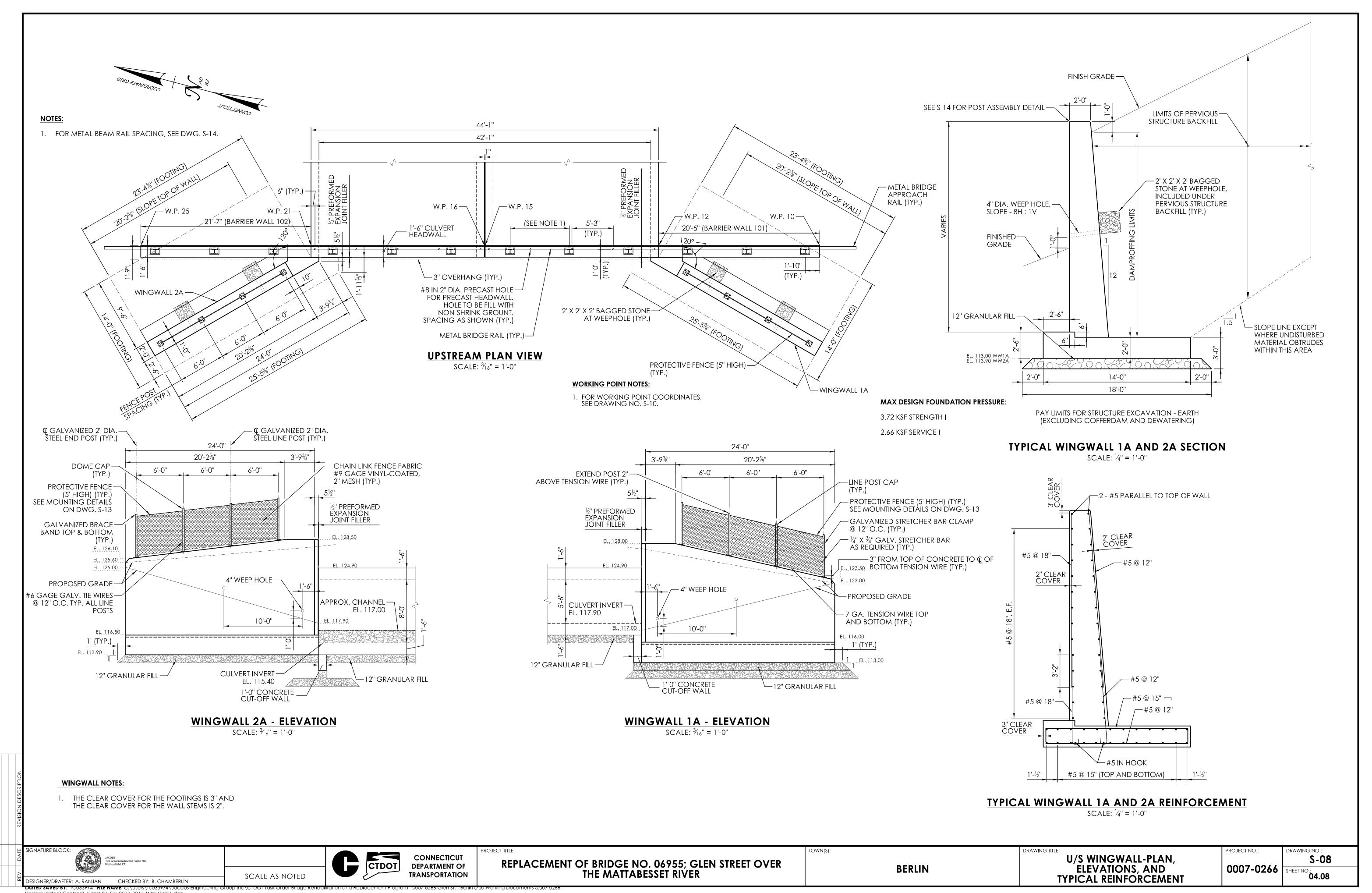
**BERLIN** 

DRAWING TITLE: BORING LOGS SHEET 2 OF 2

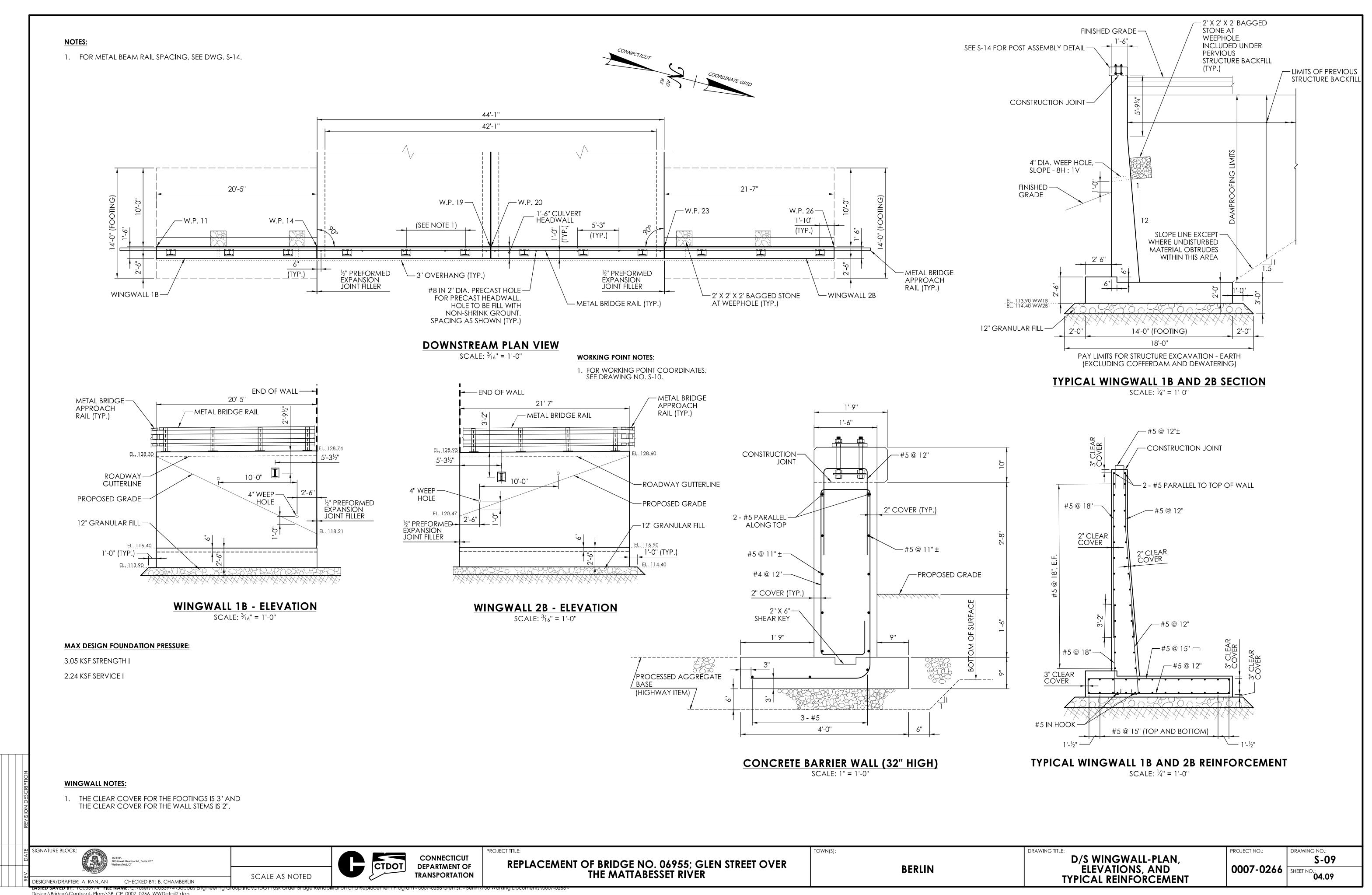
T DRAWING NO.:

S-07 0007-0266 SHEET NO.: 04.07

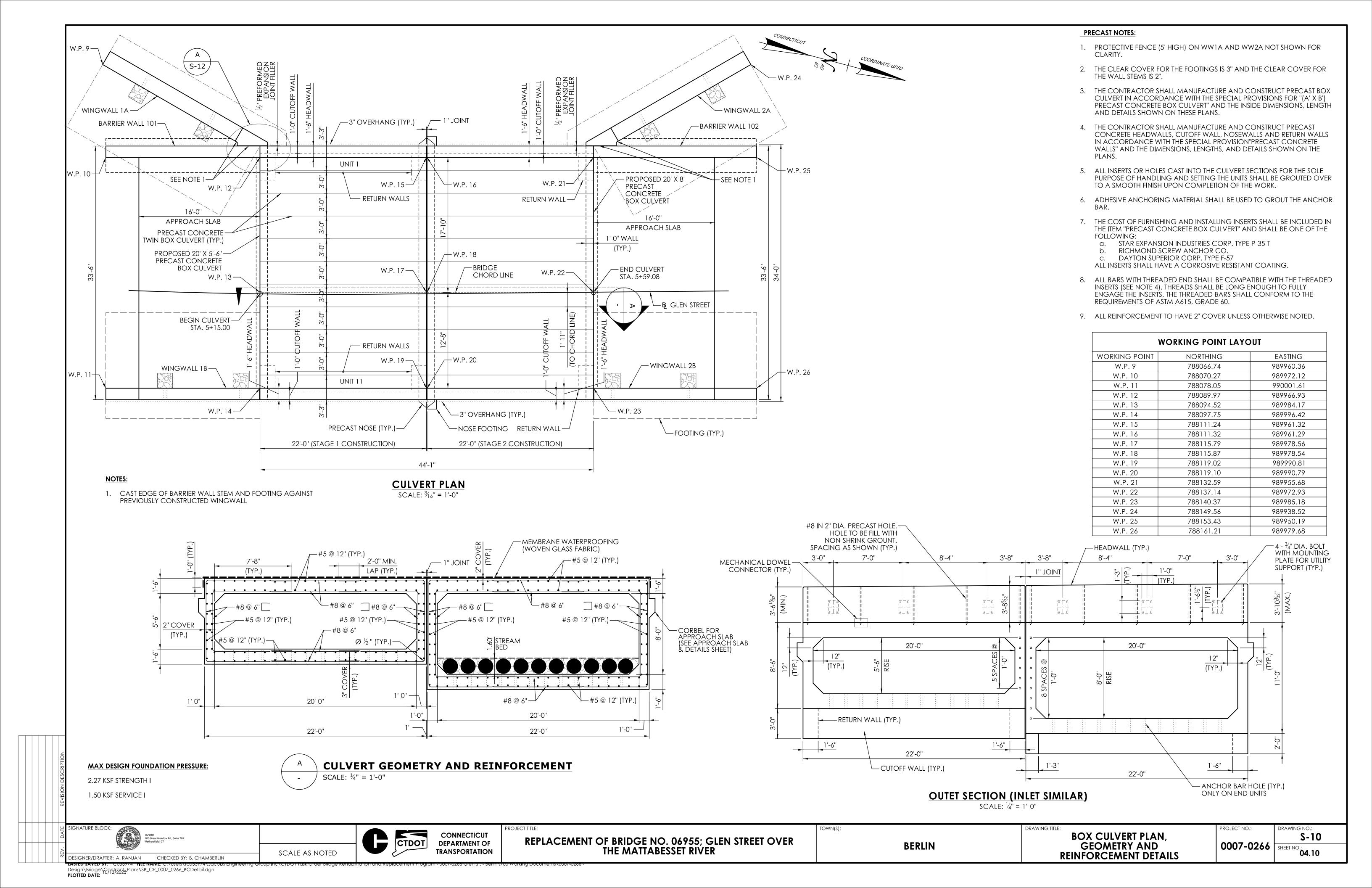
REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER THE MATTABESSET RIVER

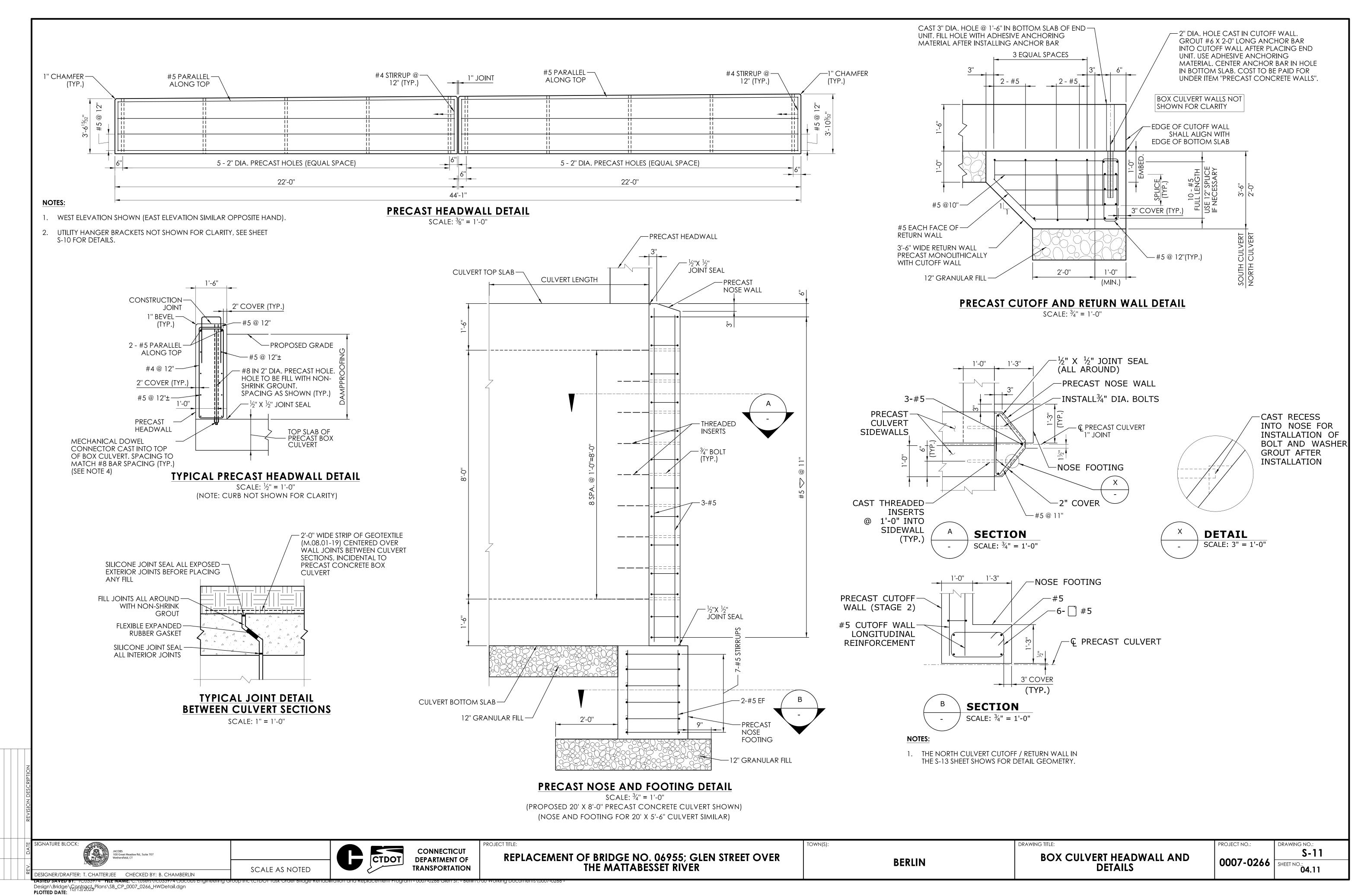


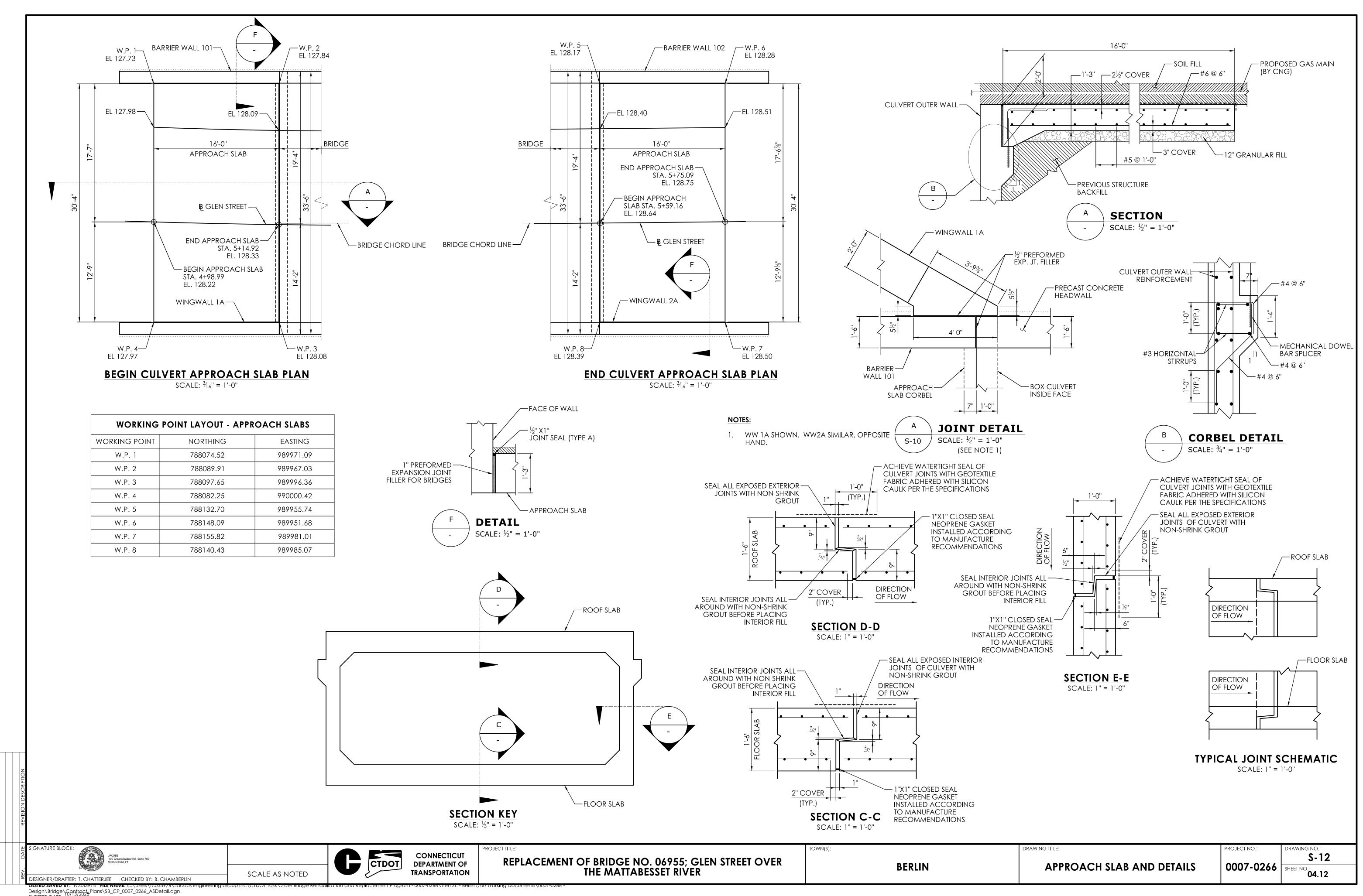
Design\Bridge\Contract\_Plans\SB\_CP\_0007\_0266\_WWDetail1.dgn
PLOTTED DATE:



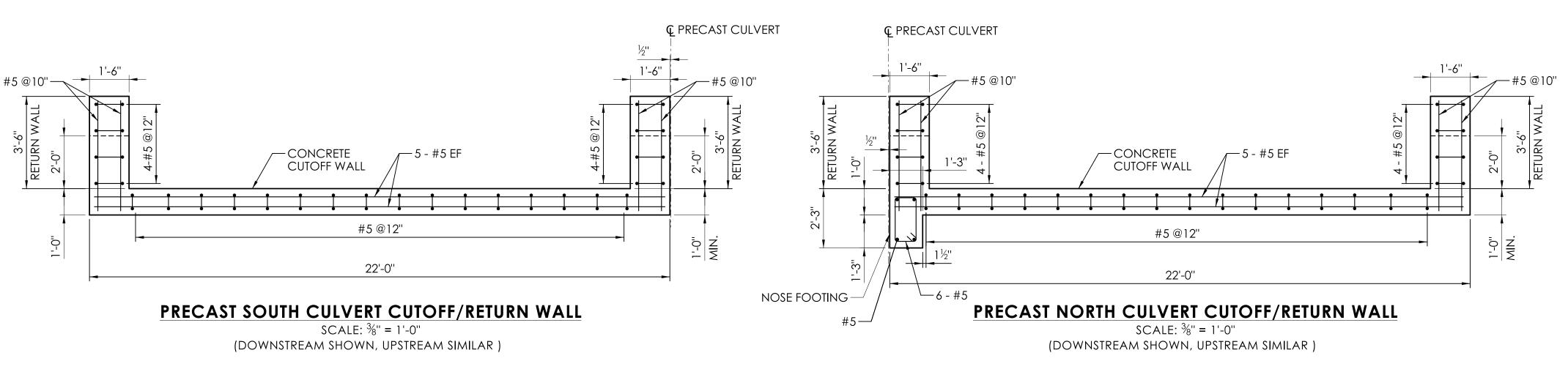
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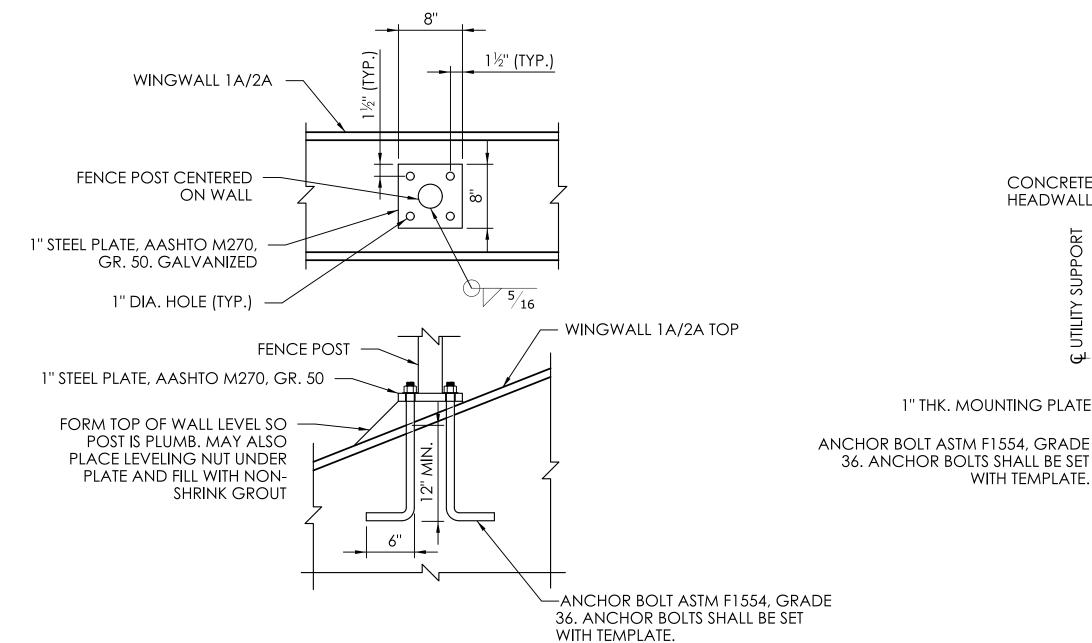






Design\Bridge\Contract\_Plans\SB\_CP\_0007\_0266\_ASDetail.dgn
PLOTTED DATE:





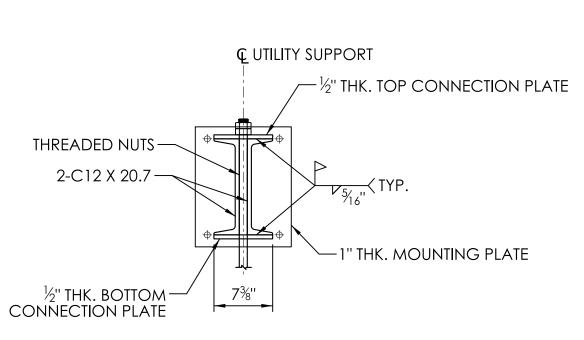
CONCRETE
HEADWALL

I'' THK, CONNECTION PLATE
TOP AND BOTTOM

Solt ASIM F1554, GRADE
CHOR BOLTS SHALL BE SET
WITH TEMPLATE.

B

UTILITY SUPPORT
SCALE: 1" = 1'-0"



C SECTION

- SCALE: 1" = 1'-0"

NOTE: ALL STEEL AND HARDWARE SHALL BE GALVANIZED.

# FENCE PLATE MOUNT DETAIL

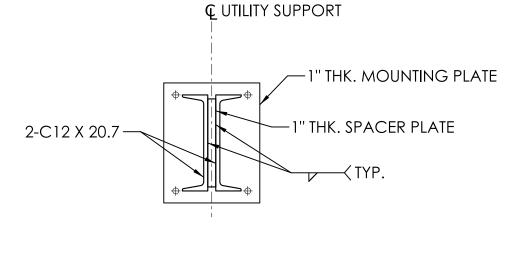
SCALE: 1" = 1'-0"

# PROTECTIVE FENCE NOTES:

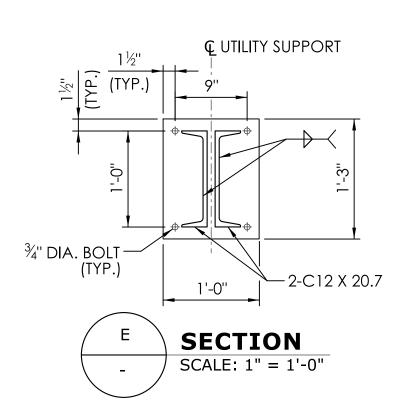
- 1. THE CHAIN LINK FABRIC SHALL BE MADE OF POLYVINYL CHLORIDE (PVC) COATED STEEL CHAIN LINK TYPE, CONFORMING TO THE SPECIFICATIONS OF ASTM F668, CLASS 2B. #9 GAGE CORE WIRE SHALL BE GALVANIZED PRIOR TO PVC COATING. IT SHALL HAVE A 2" MESH, KNUCKLED AT BOTH TOP AND BOTTOM.
- 2. CONTRACTOR SHALL FABRICATE CHAIN LINK FENCE FABRIC TO MEET VARYING SLOPES AND CHAIN LINK FENCE HEIGHT REQUIREMENTS.
- 3. THE POST AND RAILS SHALL BE STANDARD (SCHEDULE 40) STEEL PIPE AND CONFORMING TO THE REQUIREMENTS OF ASTM A53, TYPE E OR S, GRADE B. THE POST AND RAIL DIAMETERS ARE NOMINAL.
- 4. STEEL FOR BASE PLATES SHALL CONFORM TO ASTM A709, GRADE 36.
- 5. ALL BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307, GRADE A. THE WASHERS SHALL BE STANDARD, CIRCULAR PLATE WASHERS CONFORMING TO ASTM
- 6. THE PRESET ANCHORAGE WIRE STRUTS SHALL CONFORM TO ASTM A510, GRADE 1030. FERRUELS SHALL CONFORM TO ASTM A108, GRADE 12L14.
- 7. ALL FENCE COMPONENTS, INCLUDING THE POST-BASED ASSEMBLY, RAILS, FITTINGS, AND ANCHORAGES SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123.
- 8. THE ANCHORAGE ASSEMBLIES SHALL BE INSTALLED FOLLOWING THE GRADE OF TOP OF THE WALLS AS SHOWN ON THE PLANS. THE ANCHORAGES SHALL BE FIRMLY AND ACCURATELY HELD IN POSITION PRIOR TO AND DURING THE PLACING OF CONCRETE.
- 9. ALL POSTS SHALL BE INSTALLED VERTICALLY (PLUMB). ALL TENSION WIRES SHALL BE INSTALLED PARALLEL TO THE TOP OF THE WALL.
- 10. THE FABRICATION AND INSTALLATION OF PRETECTIVE FENCE, INCLUDING THE PRESET ANHORAGE, SHALL BE PAID FOR UNDER ITEM "PROTECTIVE FENCE (5' HIGH)".

# UTILITY SUPPORT NOTES:

- 1. THE COST TO FABRICATE AND INSTALL UTILITY SUPPORTS SHALL BE PAID UNDER ITEM "STRUCTURAL STEEL MISCELLANEOUS".
- 2. PIPE HANGERS SHALL BE MDC STANDARD DETAILS. THE COST TO PROVIDE WATER PIPE HANGERS SHALL BE PAID UNDER ITEM "8" DUCTILE IRON PIPE (WATER MAIN)." THE COST TO PROVIDE SANITARY SEWER LINE HANGARS SHALL BE PAID UNDER ITEM "16" DUCTILE IRON PIPE (SANITARY SEWER).
- 3. ALL STEEL SHAPES AND PLATES SHALL BE SHOP METALLIZED IN ACCORDANCE WITH THE SPECIAL PROVISION "METALLIZING STRUCTURAL STEEL (SITE NO. 1)". THE COLOR OF THE TOP COAT MATERIAL ON THE STEEL SHALL CONFORM TO FEDERAL STANDARDNO. 17038 (BLACK).







SIGNATURE BLOCK:

JAC 100 Wet

uite 707

C CTDOT

CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER MATTABESSET RIVER

town(s):

BERLIN

CONCRETE CUTOFF WALL

PROJECT NO.:

DRAWING NO.:

S-13

SHEET NO.:

04.13

