

TIP PROJECT: B-3830

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

COLUMBUS COUNTY

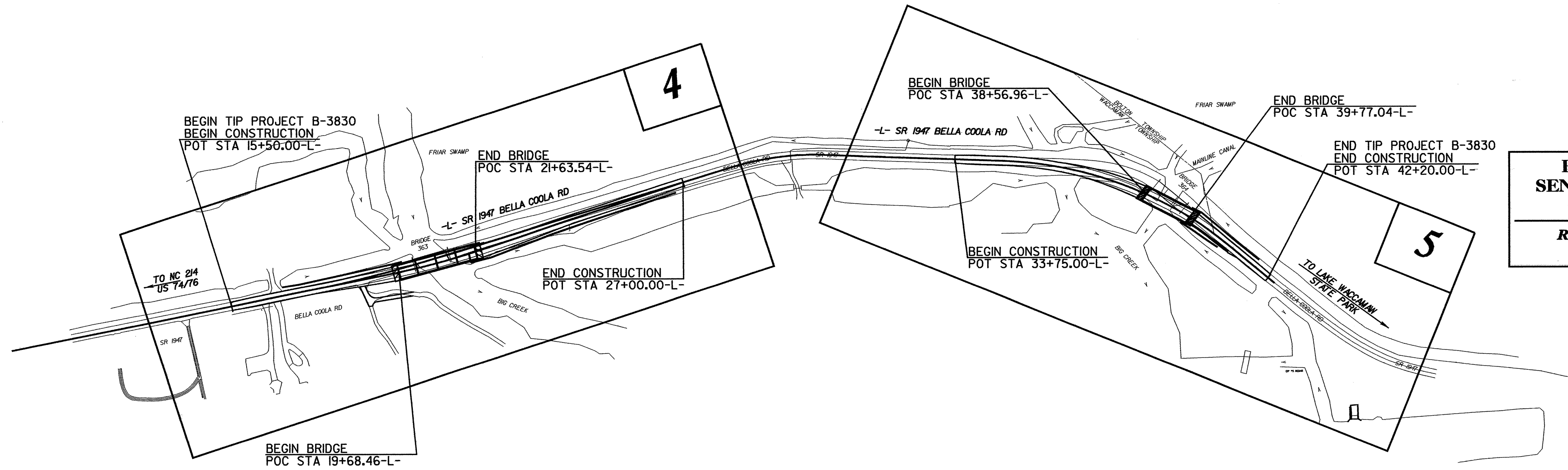
**LOCATION: BRIDGE NO. 363 AND NO. 364 OVER FRIAR SWAMP
AND BIG CREEK ON SR 1947 (BELLA COOLA RD)**

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURES.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3830	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	~ ~ ~
1622.01	Temporary Berms and Slope Drains	—
1630.01	Riser Basin	⊙
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-B	▨
	Wattle	—
1634.01	Temporary Rock Sediment Dam Type-A	⊙
1634.02	Temporary Rock Sediment Dam Type-B	⊙
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊙
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊙
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭



ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
Refer To E. C. Special Provisions for Special Considerations.

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT
High Quality Water Zone(s) Exist
From Sta. _____ Beginning
to Sta. _____ End
Refer To E. C. Special Provisions for Special Considerations.

GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

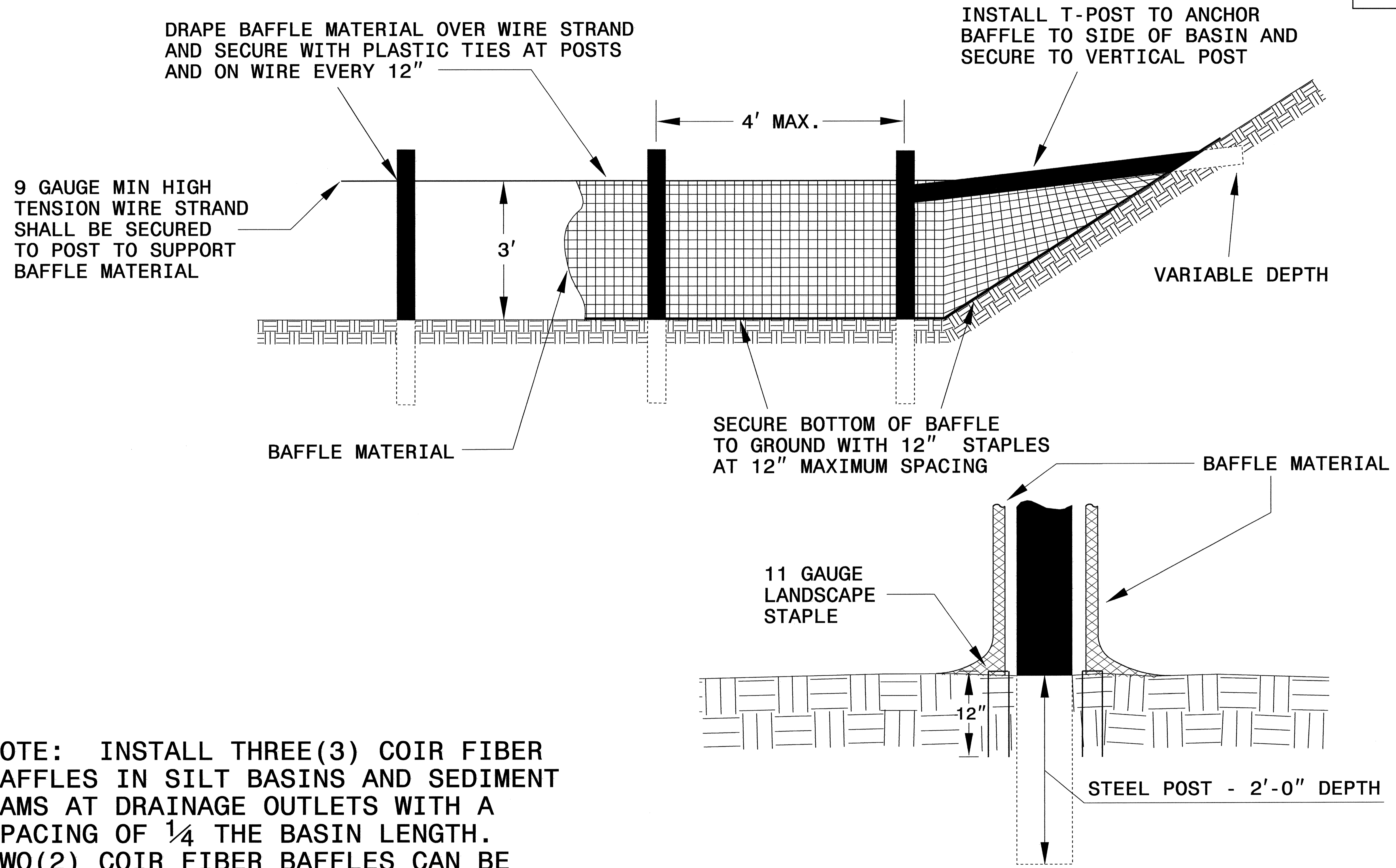
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.05 Temporary Diversion	1634.02 Temporary Rock Sediment Dam Type B

01/25/06 10:08 AM
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PROJECT REFERENCE NO. B-3830	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

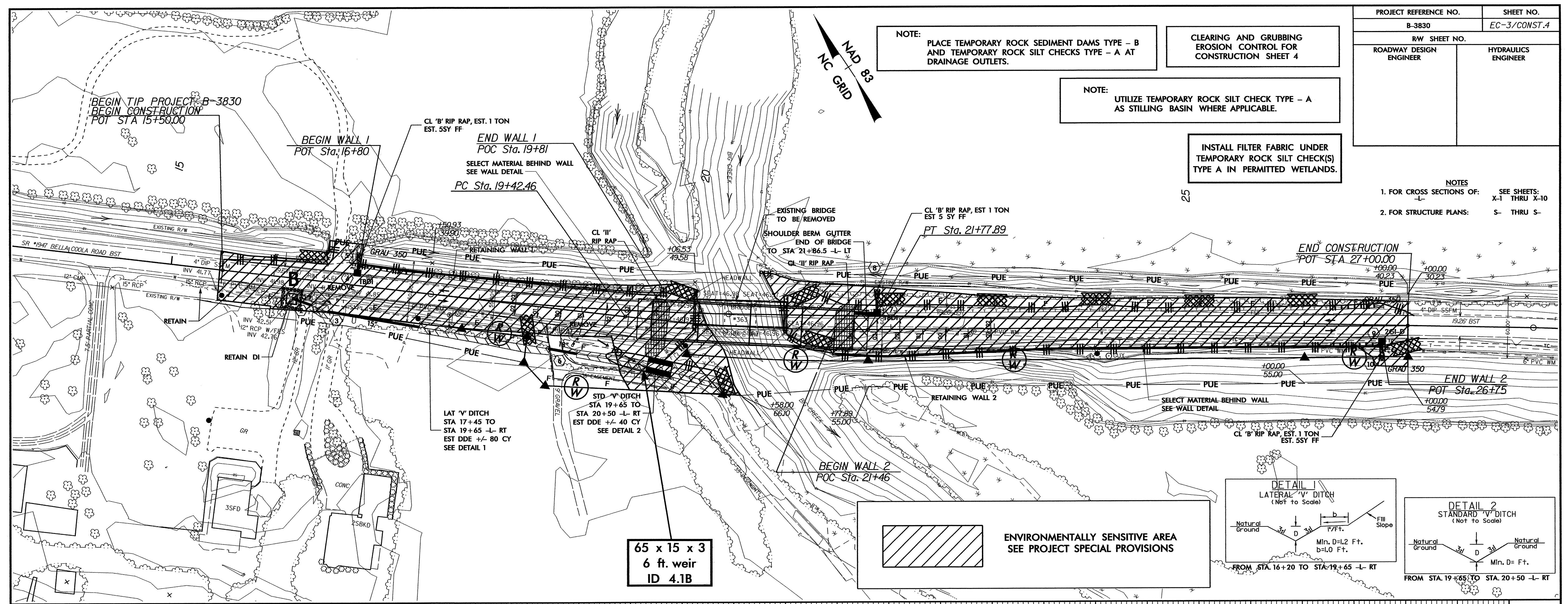
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE: UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A AS STILLING BASIN WHERE APPLICABLE.

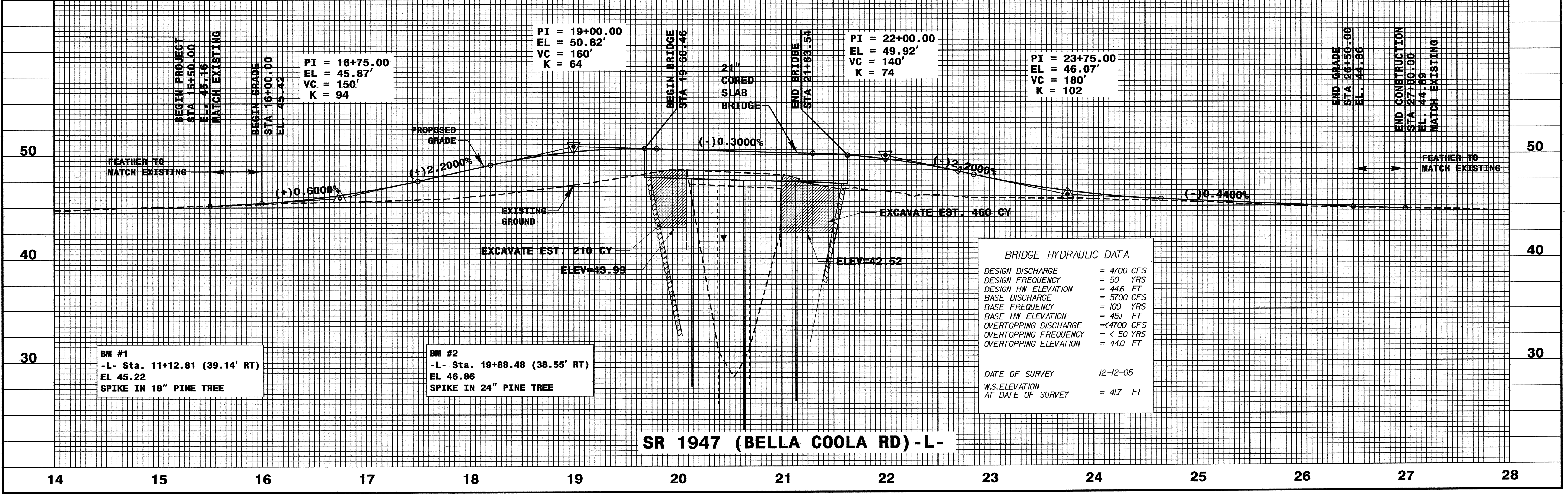
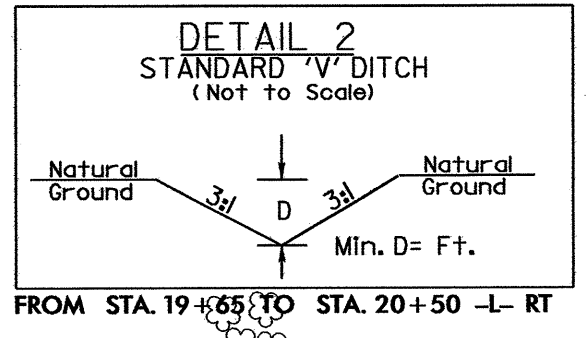
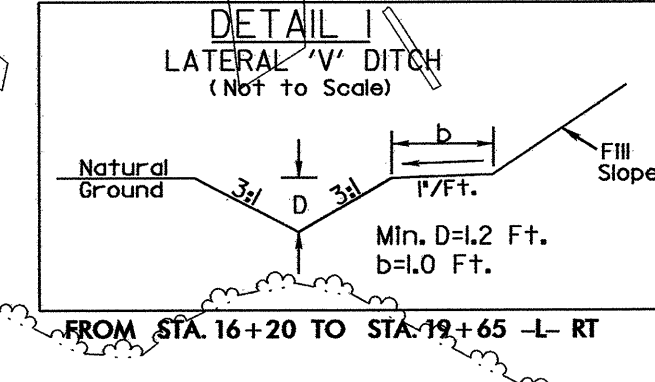
INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

NOTES
 1. FOR CROSS SECTIONS OF: SEE SHEETS: X-1 THRU X-10
 2. FOR STRUCTURE PLANS: S- THRU S-



65 x 15 x 3
6 ft. weir
ID 4.1B

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 4700 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 44.6 FT
BASE DISCHARGE	= 5700 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 45.1 FT
OVERTOPPING DISCHARGE	= < 4700 CFS
OVERTOPPING FREQUENCY	= < 50 YRS
OVERTOPPING ELEVATION	= 44.0 FT

DATE OF SURVEY 12-12-05
 W.S. ELEVATION AT DATE OF SURVEY = 41.7 FT

SR 1947 (BELLA COOLA RD) -L-

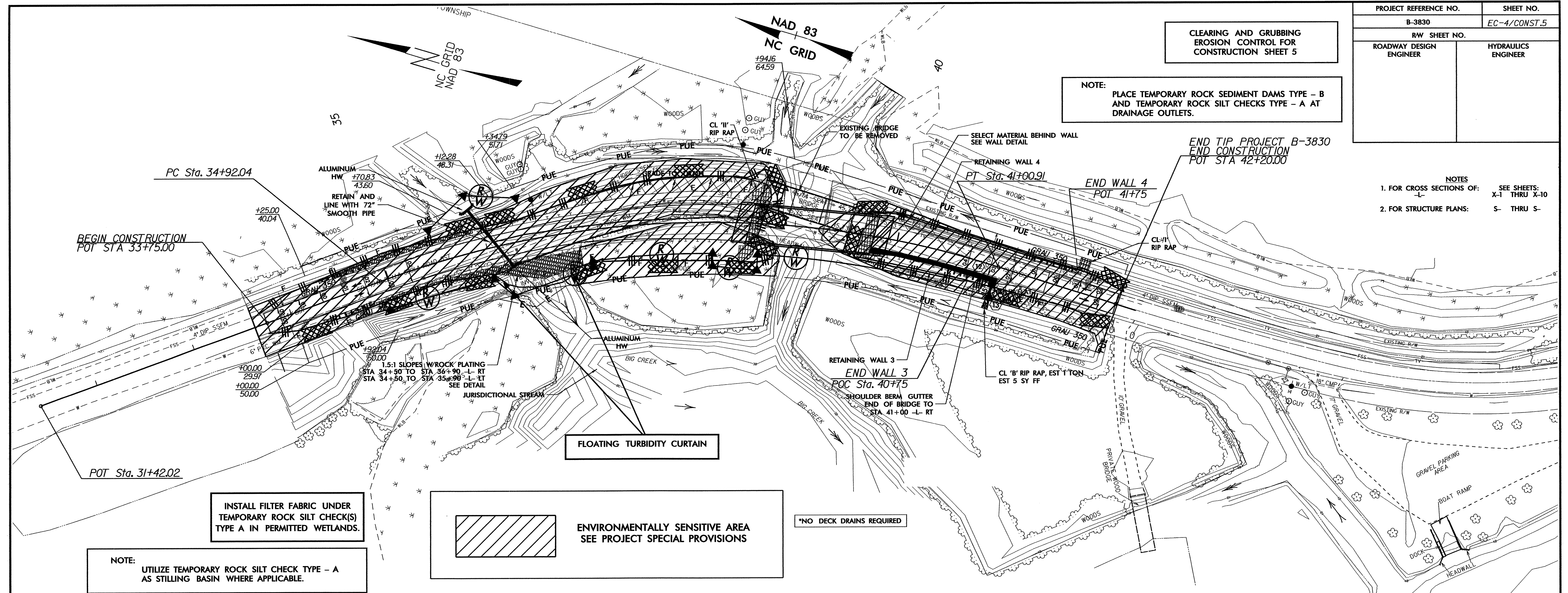
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DATE: 12/12/05

PROJECT REFERENCE NO.	SHEET NO.
B-3830	EC-4/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTES
1. FOR CROSS SECTIONS OF:
-L- SEE SHEETS:
X-1 THRU X-10
2. FOR STRUCTURE PLANS:
S- THRU S-



NOTE:
UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A
AS STILLING BASIN WHERE APPLICABLE.

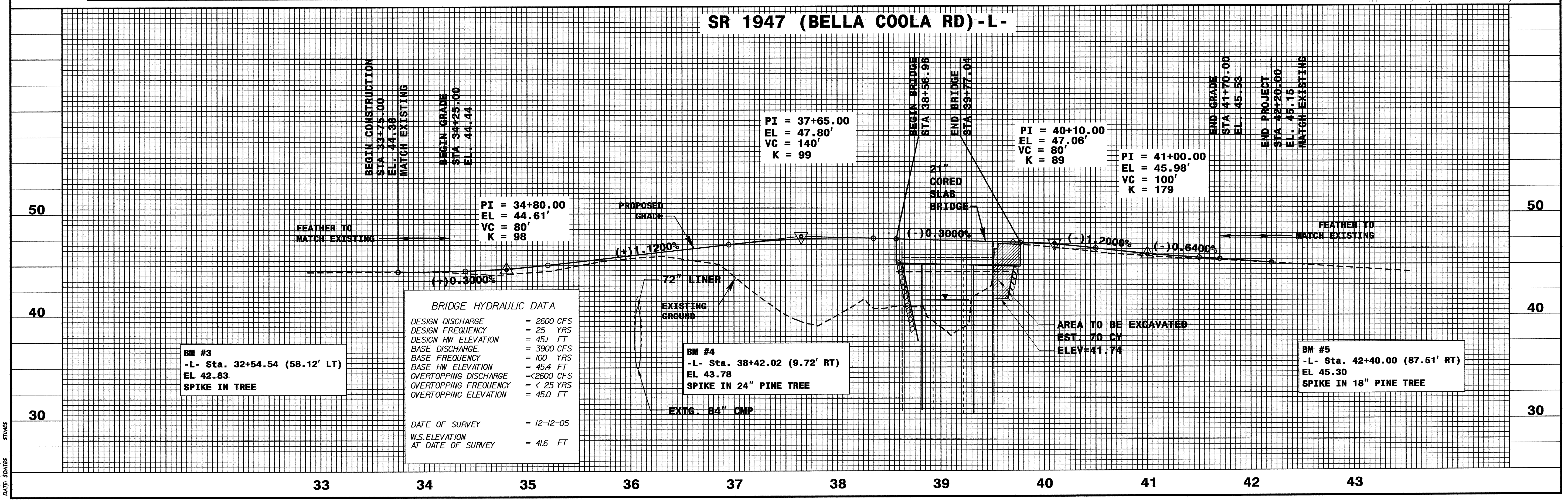
INSTALL FILTER FABRIC UNDER
TEMPORARY ROCK SILT CHECK(S)
TYPE A IN PERMITTED WETLANDS.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

*NO DECK DRAINS REQUIRED

FLOATING TURBIDITY CURTAIN

SR 1947 (BELLA COOLA RD) -L-



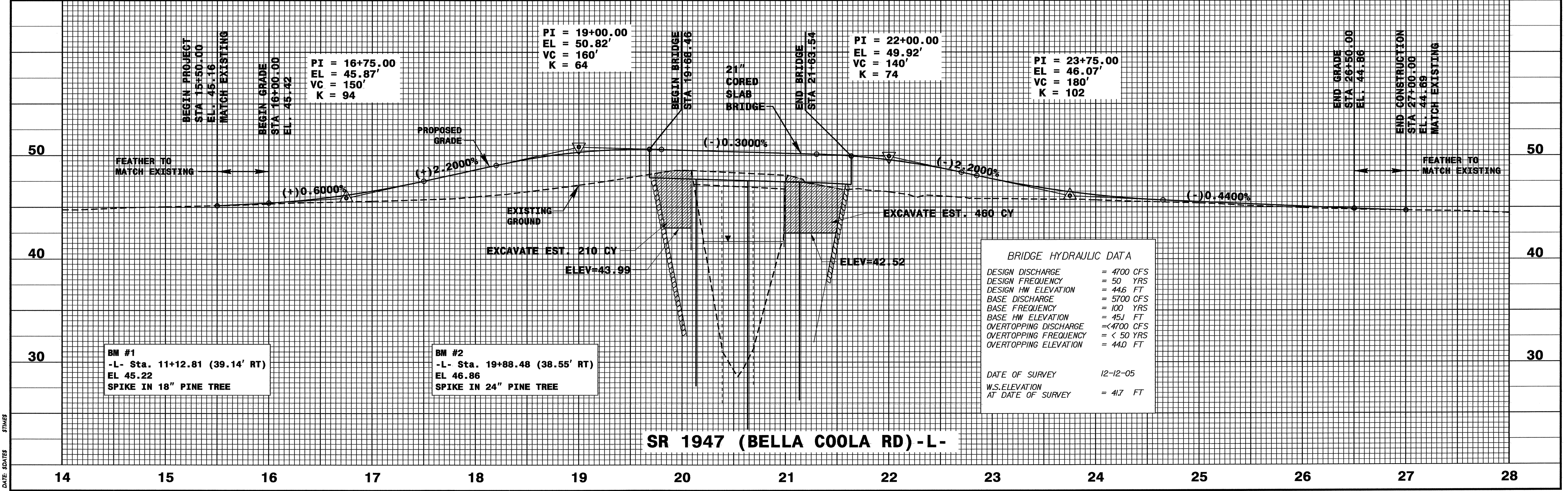
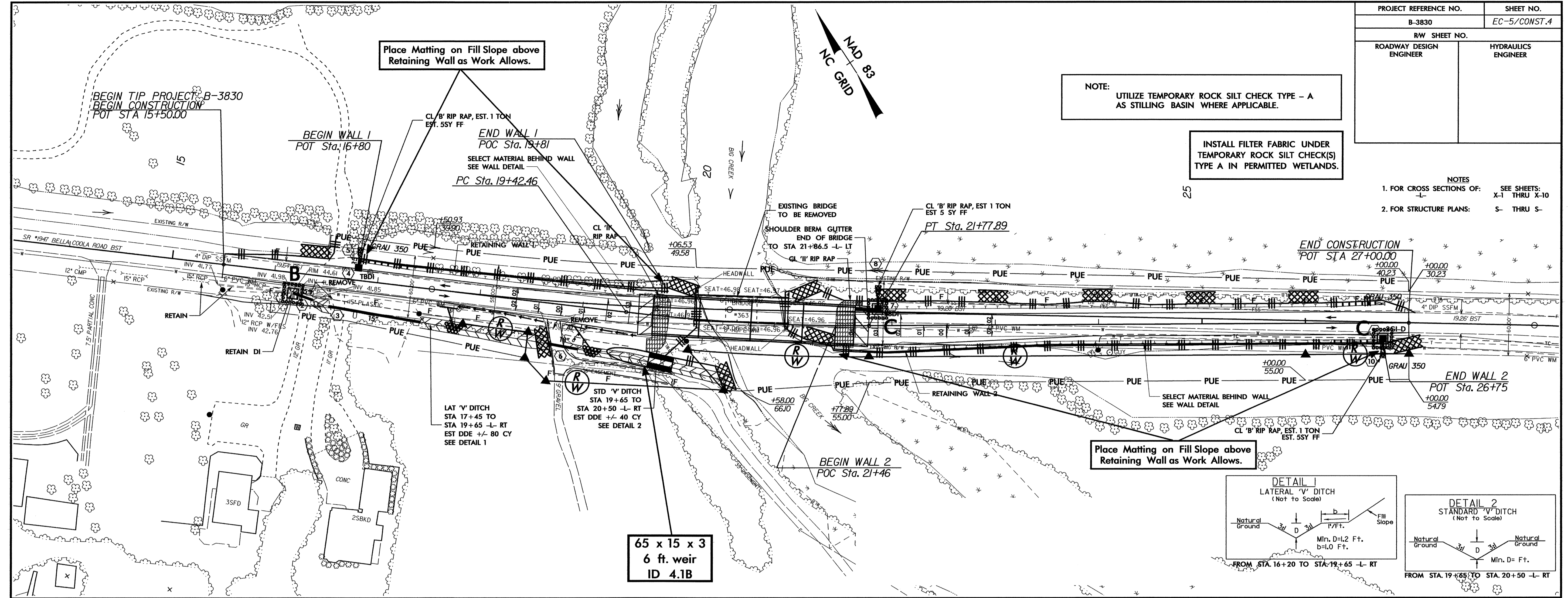
FILE: SR1947
DATE: 05/15/05
STAGE: 5

PROJECT REFERENCE NO.	SHEET NO.
B-3830	EC-5/CONST. A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A AS STILLING BASIN WHERE APPLICABLE.

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

- NOTES
- FOR CROSS SECTIONS OF: SEE SHEETS: X-1 THRU X-10
 - FOR STRUCTURE PLANS: S- THRU S-



SR 1947 (BELLA COOLA RD) -L-

FILE, SHEET, DATE, SIZE

