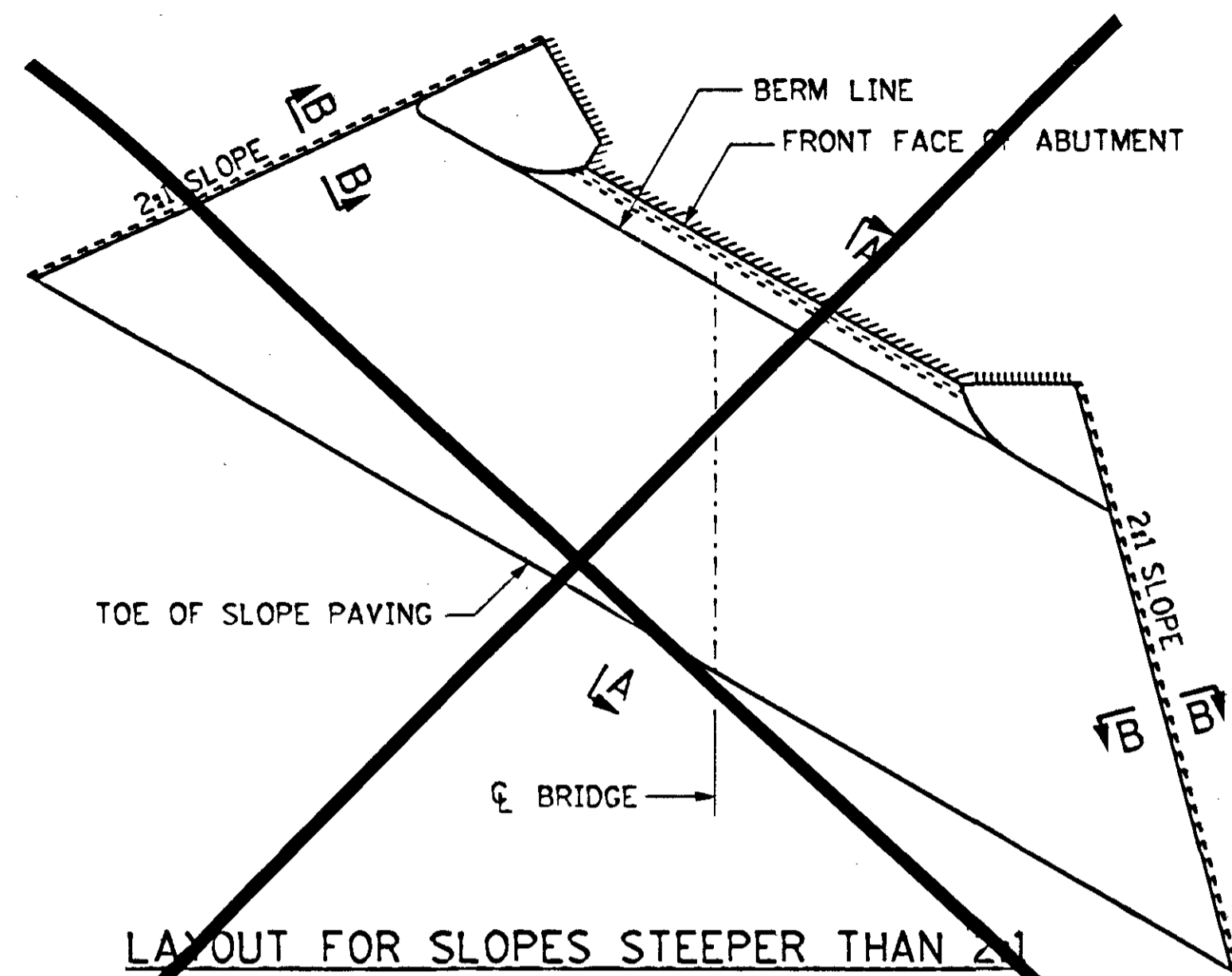
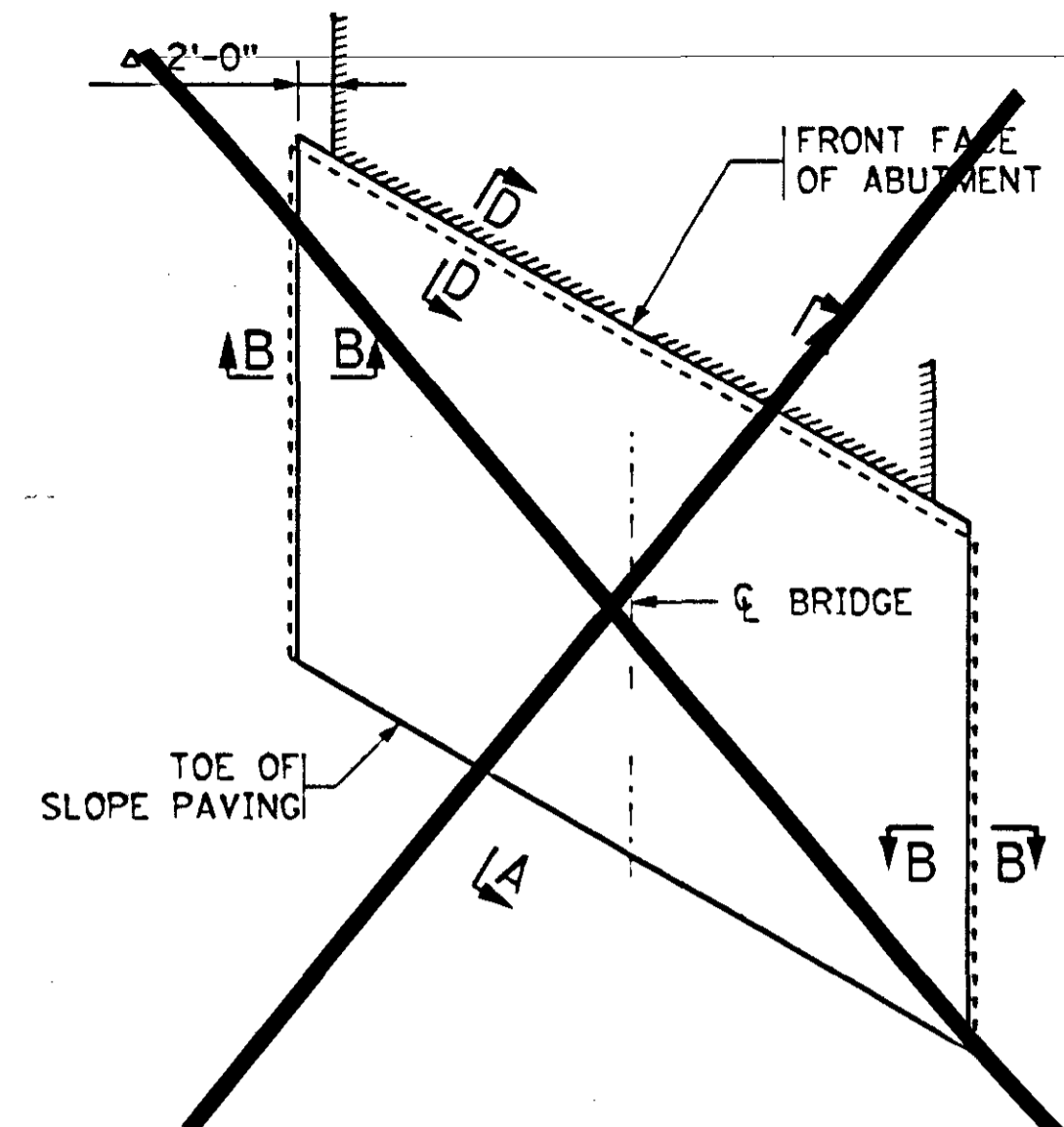


LAYOUT FOR SLOPES  
2:1 OR FLATTER

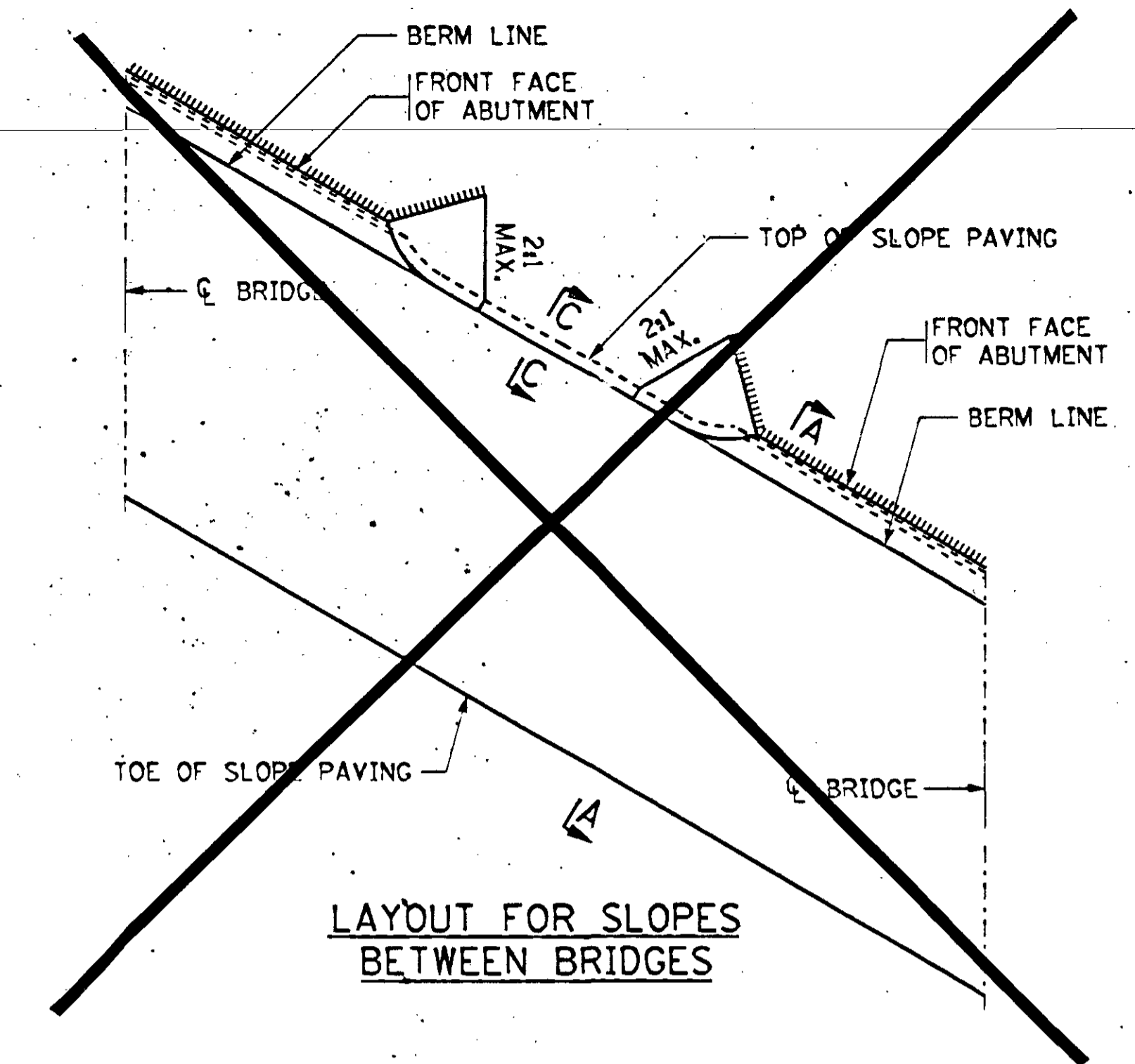


LAYOUT FOR SLOPES STEEPER THAN 2:1

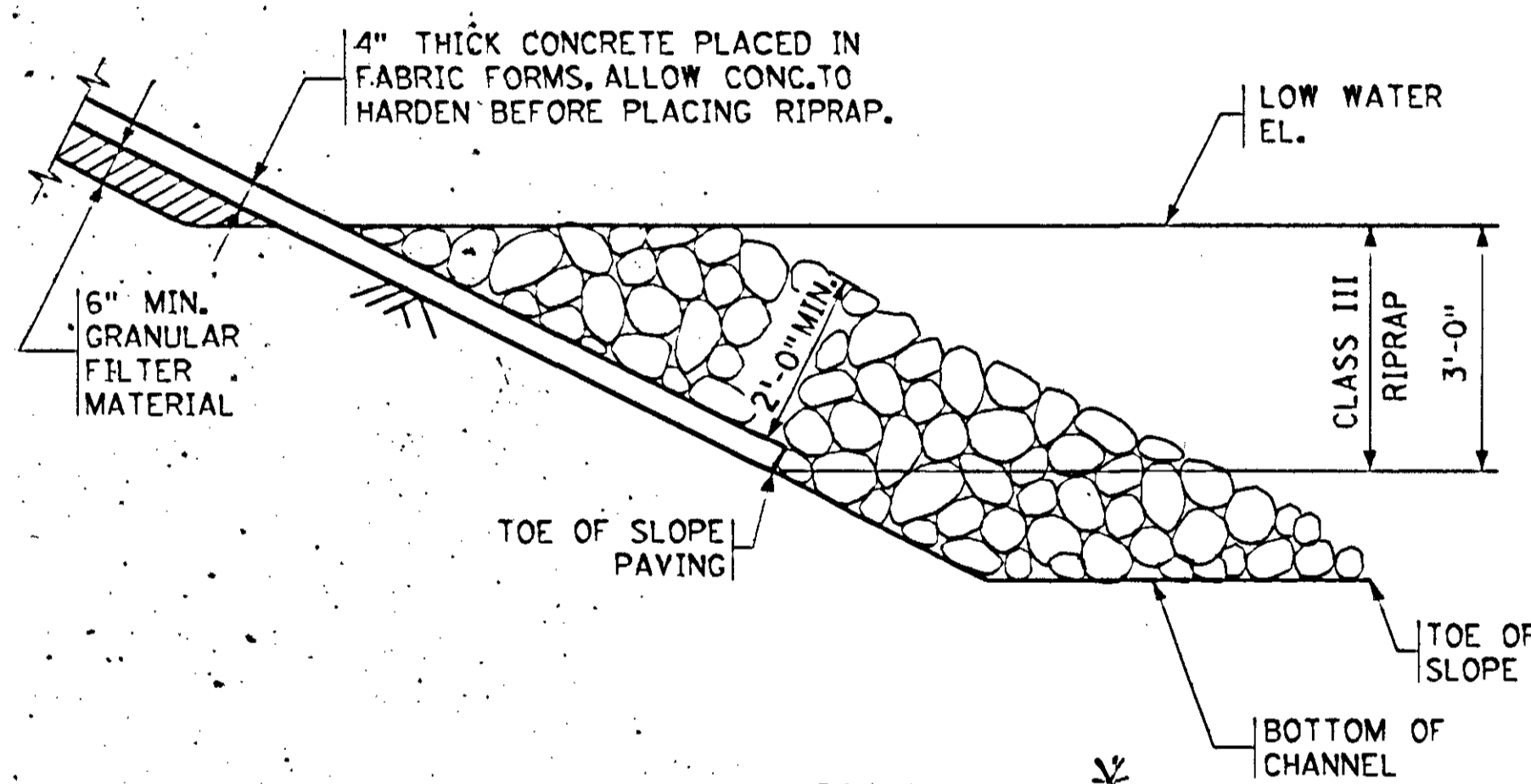
2'-0" FOR TANGENT BRIDGE SUPERSTRUCTURES.  
VARIES 2'-0" MINIMUM FOR CURVED BRIDGE  
SUPERSTRUCTURES.



LAYOUT FOR SLOPES  
AT HIGH ABUTMENTS

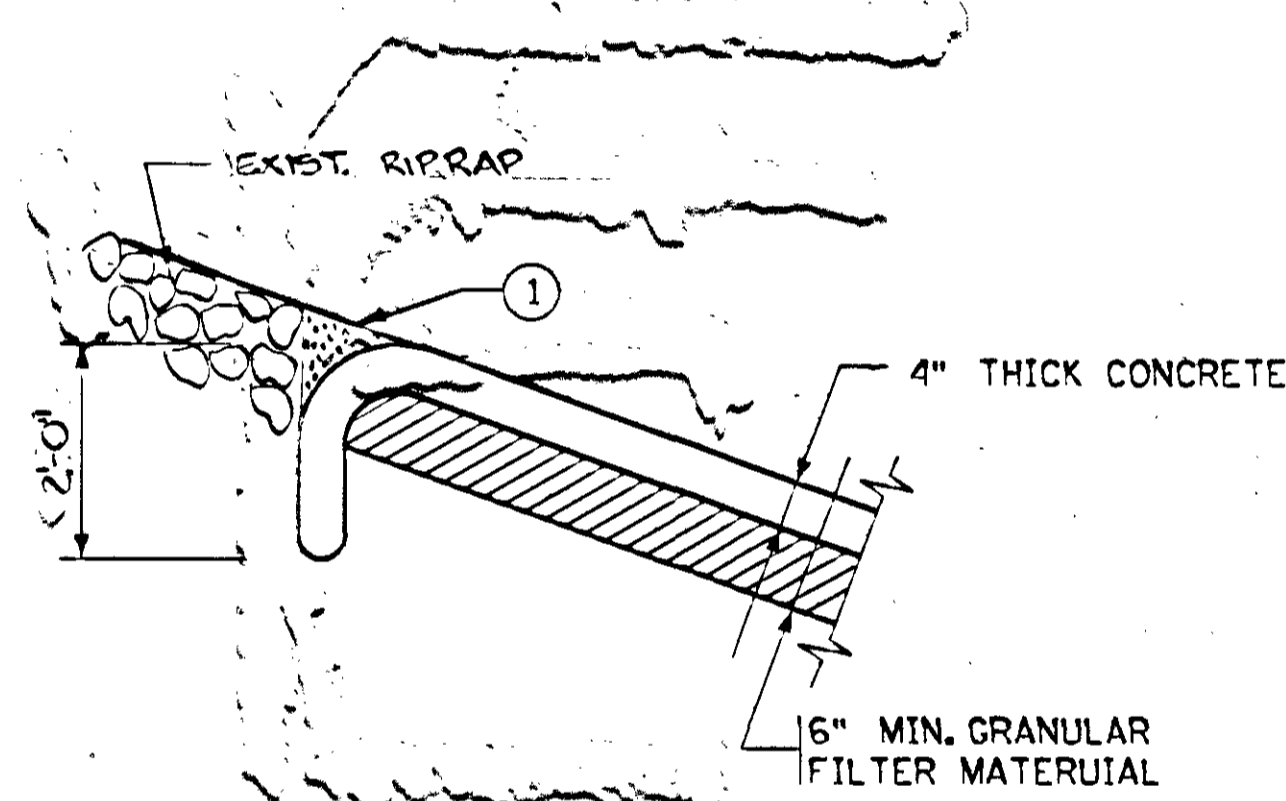


LAYOUT FOR SLOPES  
BETWEEN BRIDGES

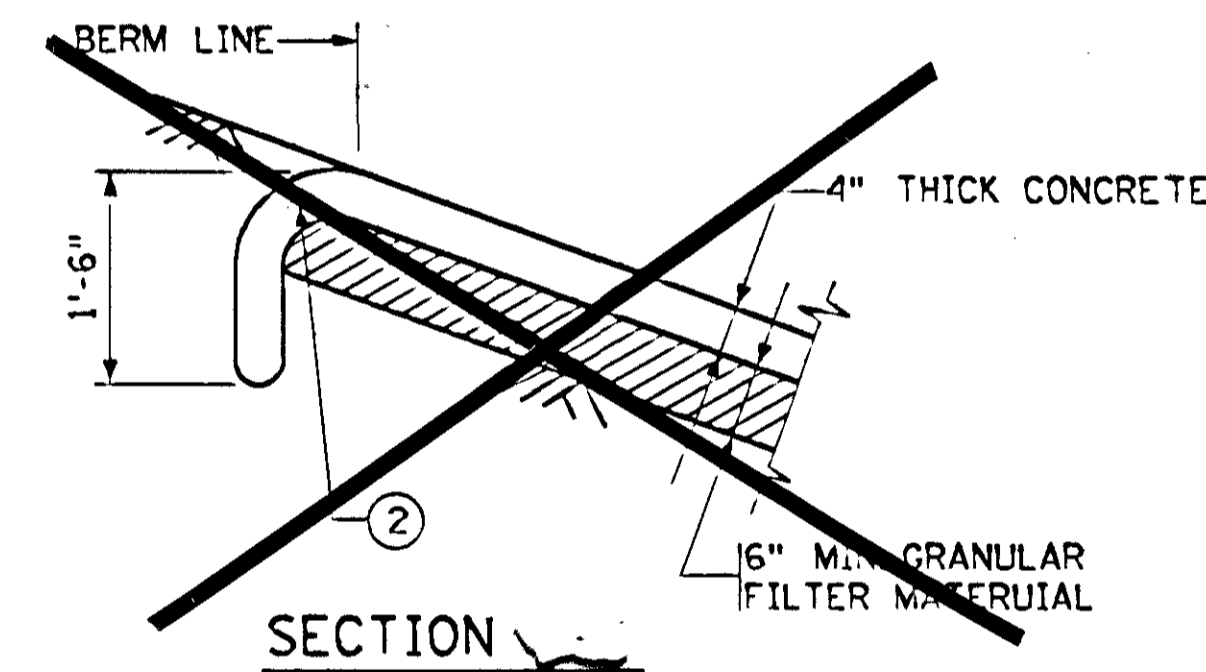


DETAIL "F" \*

(TOE OF SLOPE PAVING FOR WET CONDITIONS)



SECTION C-C



SECTION

NOTES:

LIMITS OF FABRIC-FORMED SLOPE PAVING SHOWN ARE APPROXIMATE. EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

NOTES:

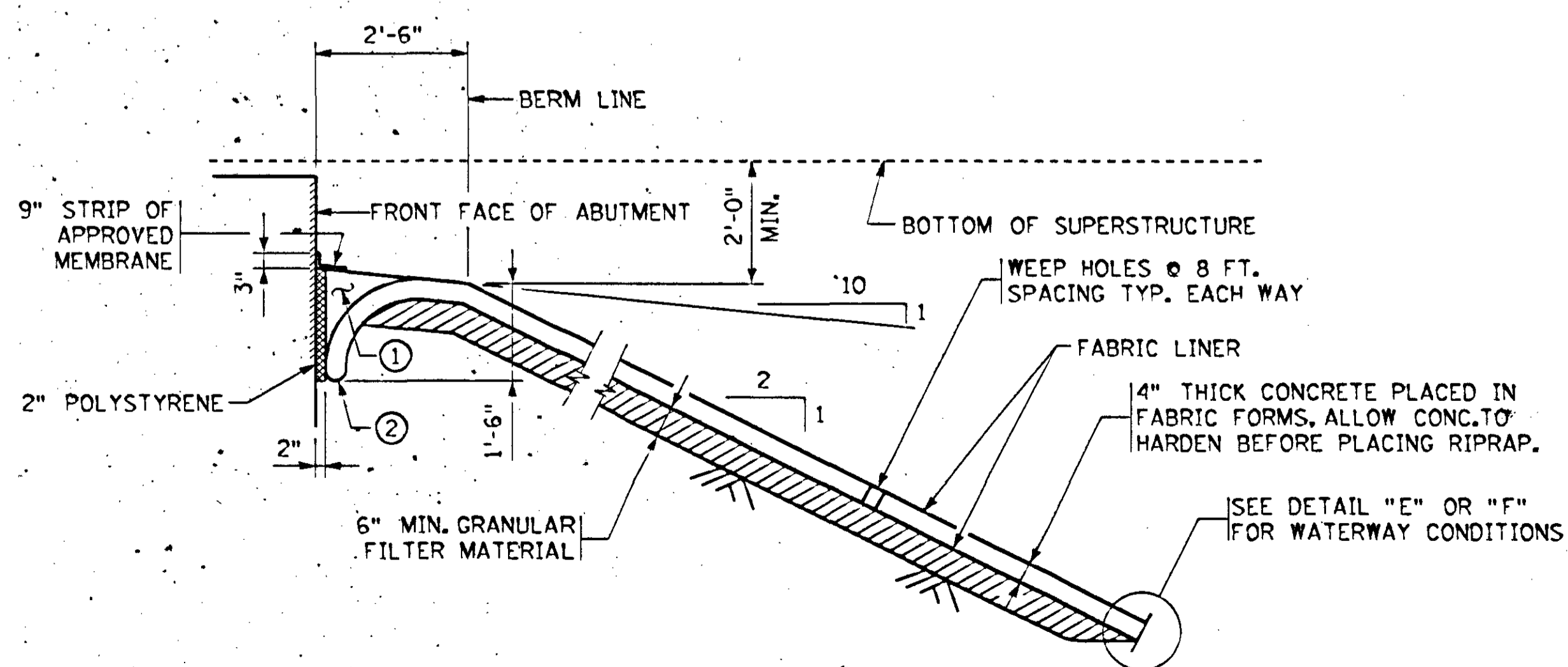
① FILL RECESS WITH CONCRETE AS PER SPEC. 2514. SLOPE AND COMPACT TO FORM A SMOOTH SURFACE.

SEE SPECIAL PROVISIONS FOR MATERIALS, PREPARATION, PLACEMENT, AND PAYMENT.

GRANULAR FILTER MATERIAL AS PER SPEC. 3601 OR 3138.2B.

SEAMS OF THE FABRIC LINER TO BE PLACED UP THE SLOPE IN A VERTICAL DIRECTION.

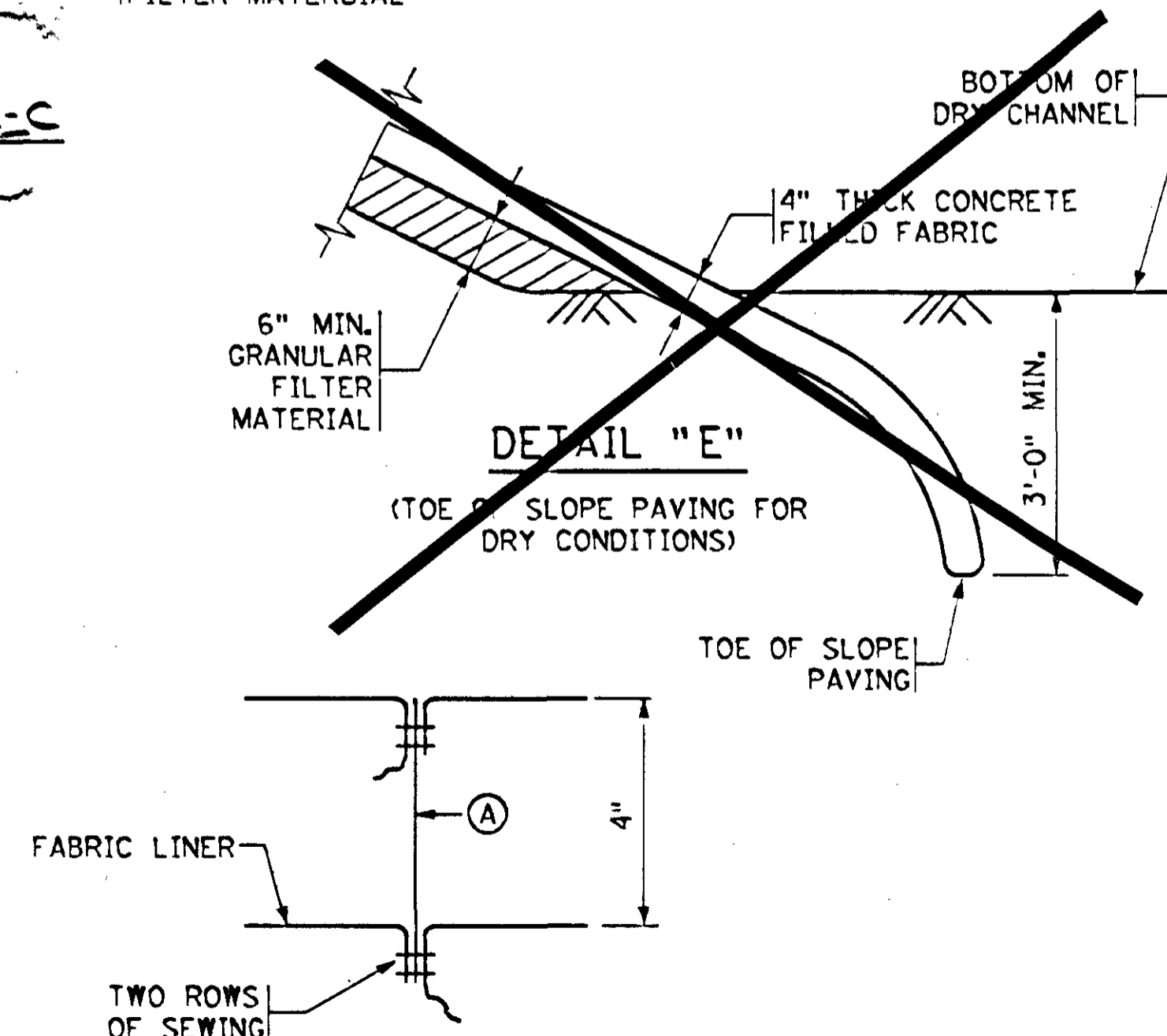
② PLACE CONCRETE IN CURVED PORTION OF FABRIC PRIOR TO PLACING CONCRETE IN OTHER AREAS.



SECTION A-A \*

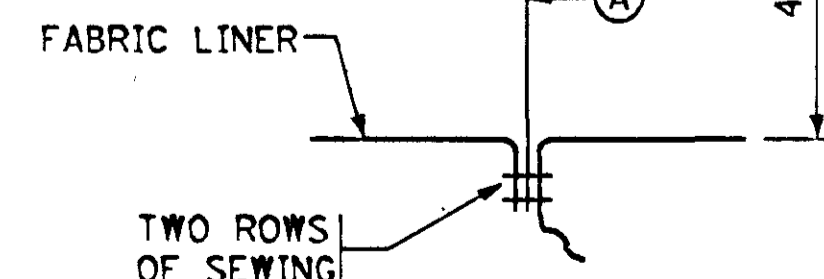
(LOW ABUTMENT SHOWN)

\* SEE NOTE ON  
SHEET 1A OF 2A  
1/96 SR



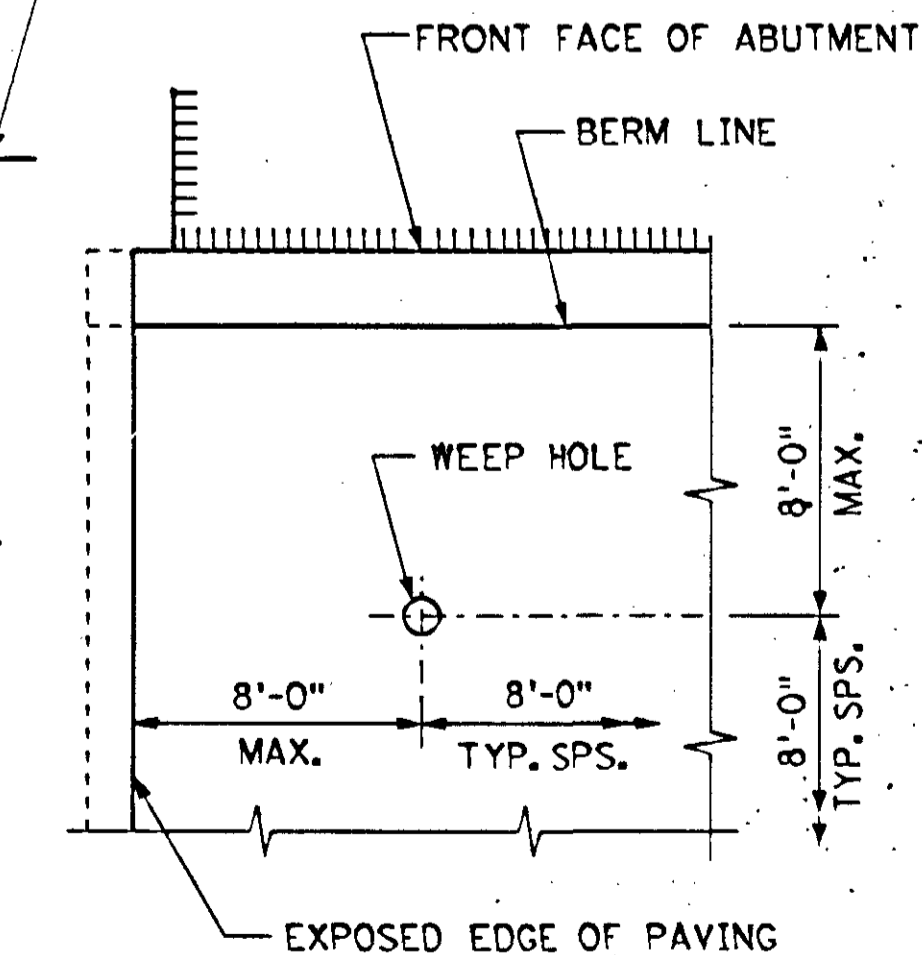
DETAIL "E"

(TOE OF SLOPE PAVING FOR DRY CONDITIONS)



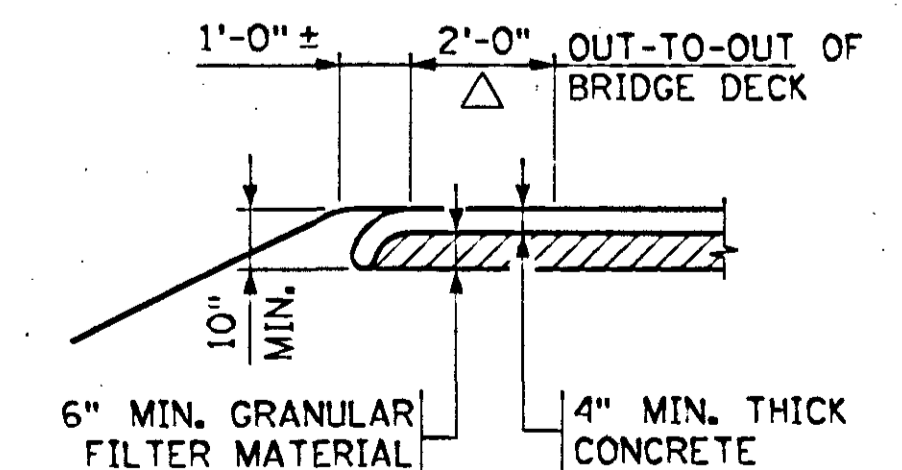
GROUT STOP DETAIL

① GROUT STOP TO BE PLACED BETWEEN EVERY THIRD SEAM, 17 FT. ± SPACING.



WEEP HOLE DETAIL

PLAN VIEW  
(ALL SLOPES AND ABUTMENTS)



SECTION B-B

APPROVED: MODIFIED FIG. 5-397.300

TITLE:	DES: TJM	DR: JAK	APPROVED:
GROUT INJECTED FABRIC FORMED SLOPE PAVING	CHK: KAR	CHK: KLW	
Sheet No. 2A of 2A	Sheets		Bridge No. 02531

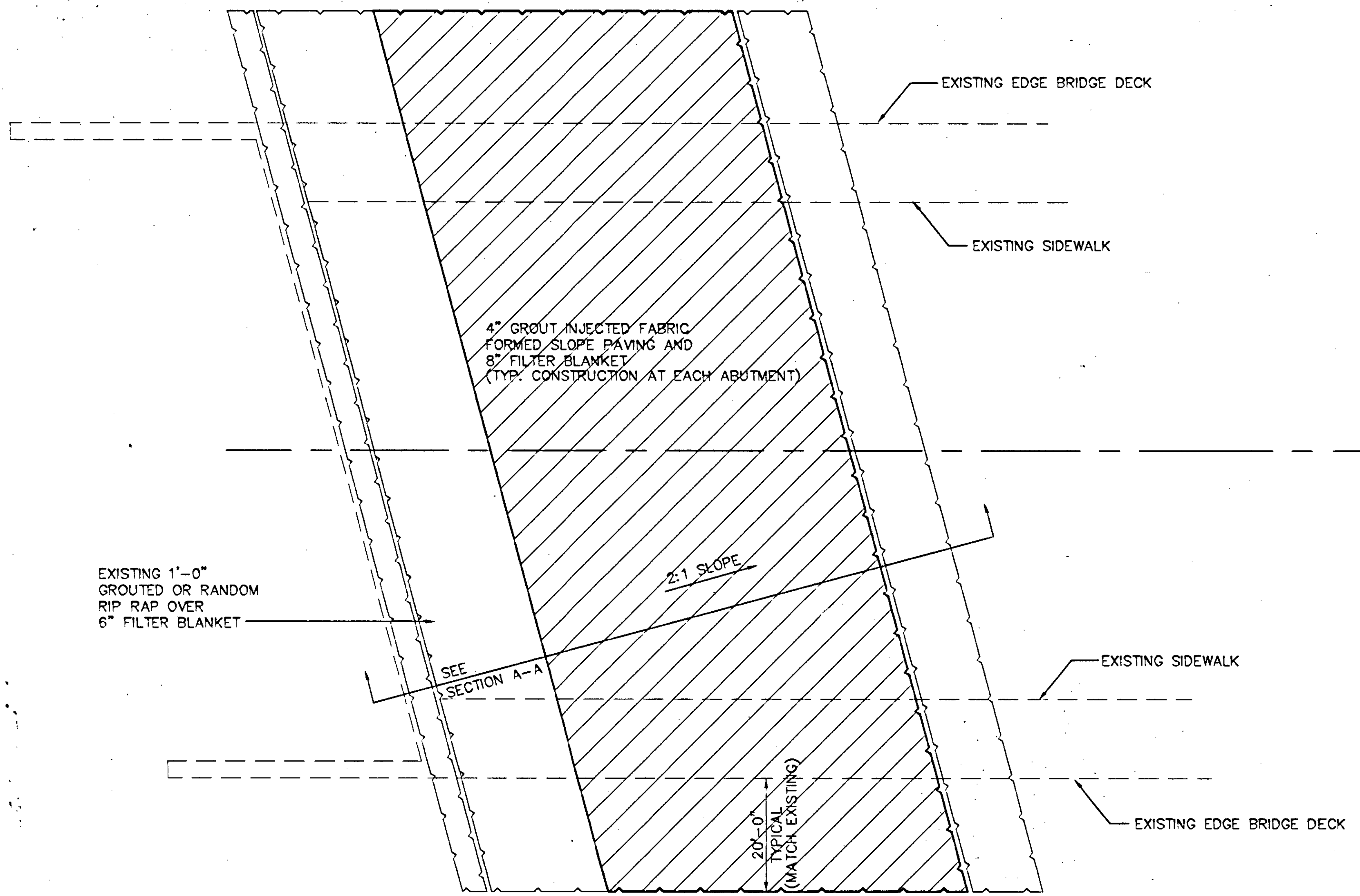
**DESIGN DATA**

**LIST OF SHEETS**

NO.	DESCRIPTION
1A	GENERAL PLAN AND ELEVATION
2A	DETAILS

**CONSTRUCTION NOTES**

THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" 1988 EDITION AS AMENDED BY THE JANUARY 2, 1991, SUPPLEMENTAL SPECIFICATION SHALL GOVERN.



EXISTING 1'-0" GROUDED OR RANDOM RIP RAP OVER 6" FILTER BLANKET

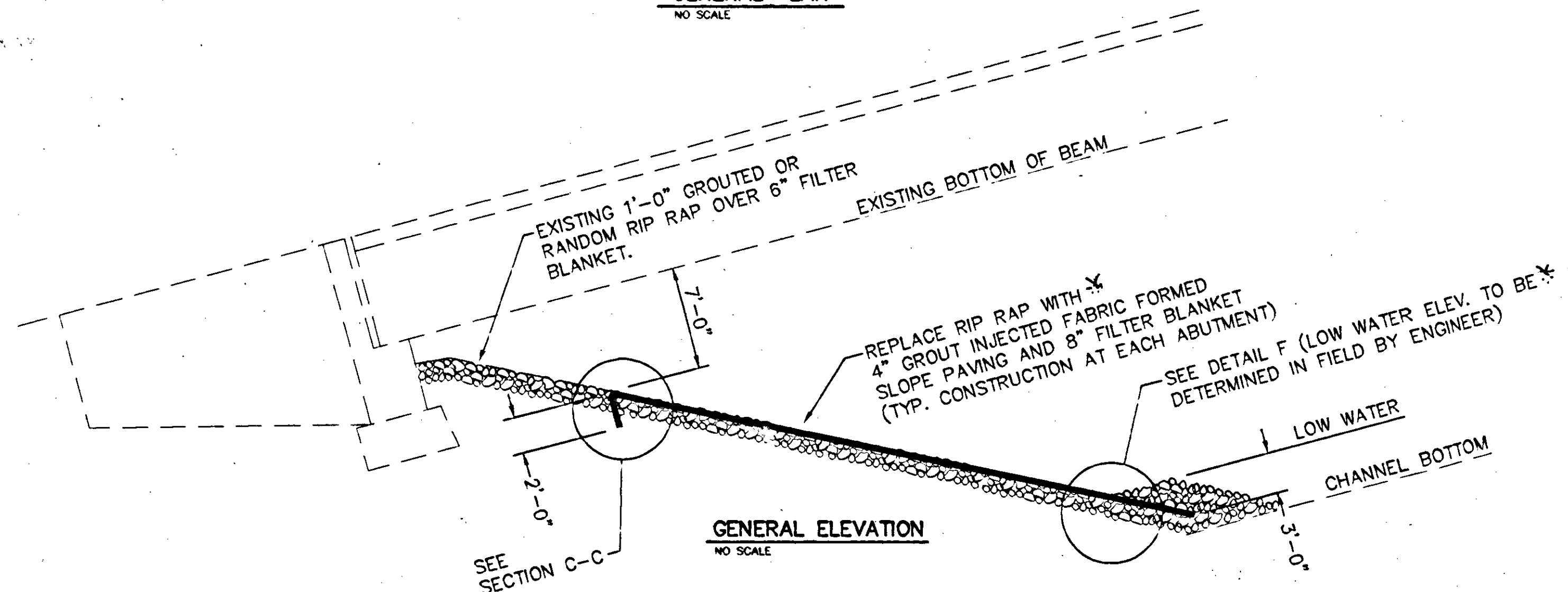
4" GROUT INJECTED FABRIC FORMED SLOPE PAVING AND 8" FILTER BLANKET (TYP. CONSTRUCTION AT EACH ABUTMENT)

2:1 SLOPE

SEE SECTION A-A

20'-0" TYPICAL (MATCH EXISTING)

**GENERAL PLAN**  
NO SCALE



EXISTING 1'-0" GROUDED OR RANDOM RIP RAP OVER 6" FILTER BLANKET

REPLACE RIP RAP WITH 4" GROUT INJECTED FABRIC FORMED SLOPE PAVING AND 8" FILTER BLANKET (TYP. CONSTRUCTION AT EACH ABUTMENT)

SEE DETAIL F (LOW WATER ELEV. TO BE DETERMINED IN FIELD BY ENGINEER)

\* FABRIC FORMED SLOPE PAVING NOT INSTALLED. CONTRACTOR BRINGS UP EXISTING SLOPE PROTECTION TO A POINT APPROX. 10 FEET UP/BACK FROM ABUT AND PLACES/IMPRES WITH OUMP NORMAL STRENGTH CONCRETE TO BRING ALL ALONG ENTIRE WIDTH (NOT 6 FT.) OF SLOPE PROTECT. GRANULAR RIVER NOT INSTALLED.

1/05 SPJ

**GENERAL ELEVATION**  
NO SCALE

**TRAFFIC CONTROL**

- 1 ONE LANE OF TRAFFIC IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES.
- 2 CONTRACTOR TO INSTALL TRAFFIC CONTROL DEVICES AND WARNING SIGNS IN CONFORMANCE WITH THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), APPENDIX B, DATED NOVEMBER 1992.

**SCHEDULE OF QUANTITIES FOR ENTIRE BRIDGE**

ITEM NO.	0433.603	0404.603	0401.601	0514.601 *	2511.511 *										
ITEM	REPAIR SIDEWALK SLAB	CONCRETE OVERLAY PATCH	SLOPE PREPARATION	FABRIC FORMED SLOPE PAVING	GRANULAR FILTER										
UNIT	SQ. FT.	SQ. FT.	LUMP SUM	SQ. YD.	CU. YD.										
QUANTITY	20	30	1	860	160										

**COUNTY APPROVAL**

DATE \_\_\_\_\_ COUNTY ENGINEER, ANOKA COUNTY

**WIDSETH SMITH NOLTING** ENGINEERS ARCHITECTS LAND SURVEYORS PROJECT MANAGERS  
ALEXANDRIA 612-762-9149

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

*[Signature]*  
DATE 2/3/1994 REG. NO. 14280

C.S.A.H. NO. 30 ANOKA COUNTY

**MINNESOTA DEPARTMENT OF TRANSPORTATION**

**Bridge No. 02531**

C.S.A.H. 30 (PLEASANT STREET) OVER THE RUM RIVER IN ANOKA.

105'-105'-105' PRESTRESSED CONC. BEAM SPANS - 44' RDWY. 15' SKEW 2- 6' SIDEWALKS

IDENTIFICATION NO. 501

**GENERAL PLAN AND ELEVATION**

SEC. 6 T 31 N R 24 W

CITY OF ANOKA ANOKA COUNTY

APPROVED \_\_\_\_\_

STATE BRIDGE ENGINEER

DES. BY T.J.M. DR. BY J.A.K.  
CHK. BY K.A.R. CHK. BY T.J.M.