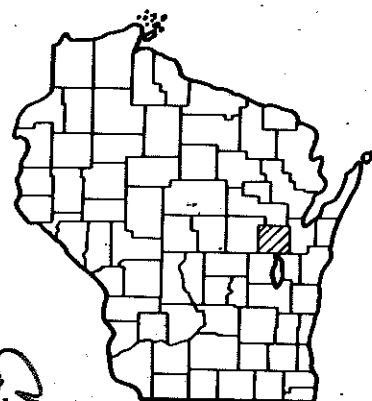


Index of Sheets

Sheet No. B-44-109
 Sheet No. CTMY Rd G
 Sheet No. 1
 Sheet No. 2
 Sheet No. 3
 Sheet No. 4
 Sheet No. 5
 Sheet No. 6
 Sheet No. 7
 Sheet No. 8
 Sheet No. 9
 Sheet No. 10
 Sheet No. 11
 TOTAL SHEETS C-11



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT S.T.H. 47 - SEYMOUR

BLACK CREEK BRIDGE

C.T.H. "G"

OUTAGAMIE COUNTY

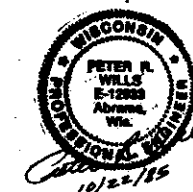
STATE PROJECT NUMBER
 6007-1-75

START 6-1-87
 4 WEEKS
 LUNDA
 NO FIELD OFFICE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6007-1-75	BRS 1360(3)	1

APPROVED FOR
 OUTAGAMIE COUNTY
 BY
 10-23-85
 (Date) *[Signature]*
 (Signature of Official)

ORIGINAL
 PLANS PREPARED BY
Foth & Van Dyke
 Engineering/Architectural Division
 © 1984 FOTH & VAN DYKE and Assoc., Inc.
 2737 S. Ridge Road
 P. O. Box 19012
 Green Bay, WI 54307-9012
 414/497-2500



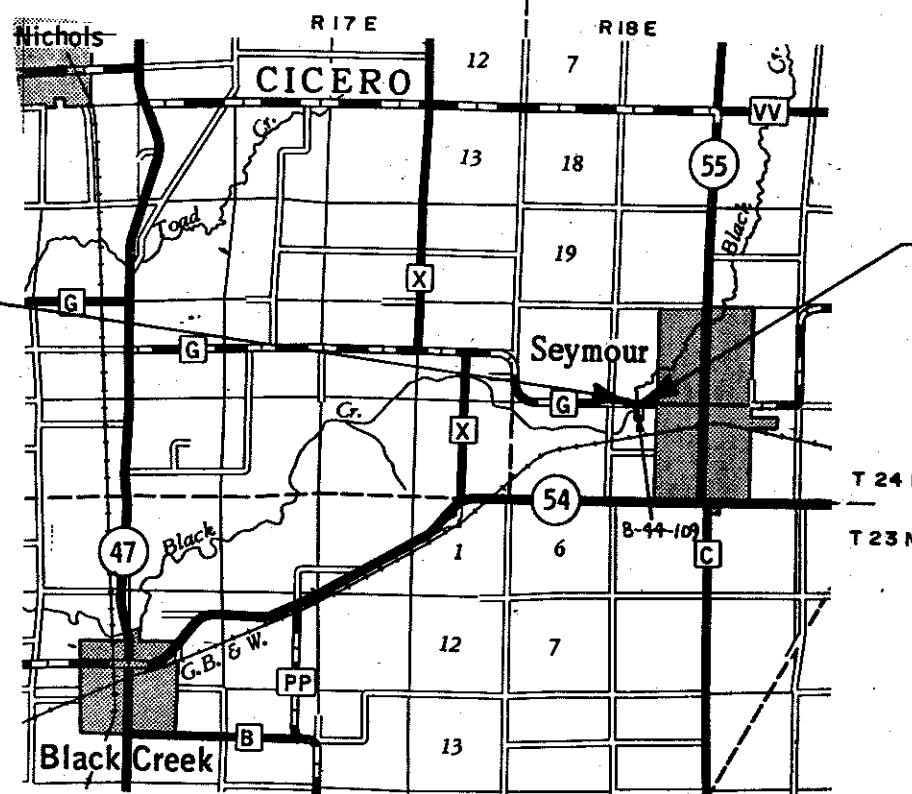
Design Designation

A.D.T. 1987 = 1875
 A.D.T. 2007 = 5160
 D.H.V. = 770
 D. = 60/40
 T. = 8 %
 V. = 50 M.P.H.

BEGIN PROJECT
 STA. 393+57

N. 253,000 (± 100) *
 E. 2,431,950 (± 100) *

END PROJECT
 STA. 393+81



Layout
 Scale 0 1 2 Mi.

Total Net Length of Centerline = 0.004 Mi. RURAL

* COORDINATES SCALED FROM U.S.G.S.
 TOPOGRAPHIC MAP NICHOLS
 7.5 MIN. SERIES, WISCONSIN, QUADRANGLE
 FOR IDENTIFICATION ONLY.

Conventional Signs

County Line	-----	Caution Symbol (Combustible fluids under pressure)	
Township or Range Line	-----	Railroads	+++++
Section Line	-----	Fence	---X---
Corporate or City Limits	-----	Culverts in Place	-----
Property line	-----	Culverts Required	-----
Lot Line	-----	Power Pole	---
Existing Right of Way Line	-----	Telephone or Telegraph Pole	---
New Right of Way Line	-----	Right of Way Markers	---
Base or Survey Line	-----	Marsh	-----
Slope Intercept	-----	Wooded Area	-----
Existing Roadway or Private Entrance	-----	Grade Elevation	---

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 Surveyor: F.B.V.D. District Checker: F.B.V.D.
 Designer: F.B.V.D. C.O. Checker: F.B.V.D.
 District Supervisor: F.B.V.D. C.O. Coordinator: F.B.V.D.

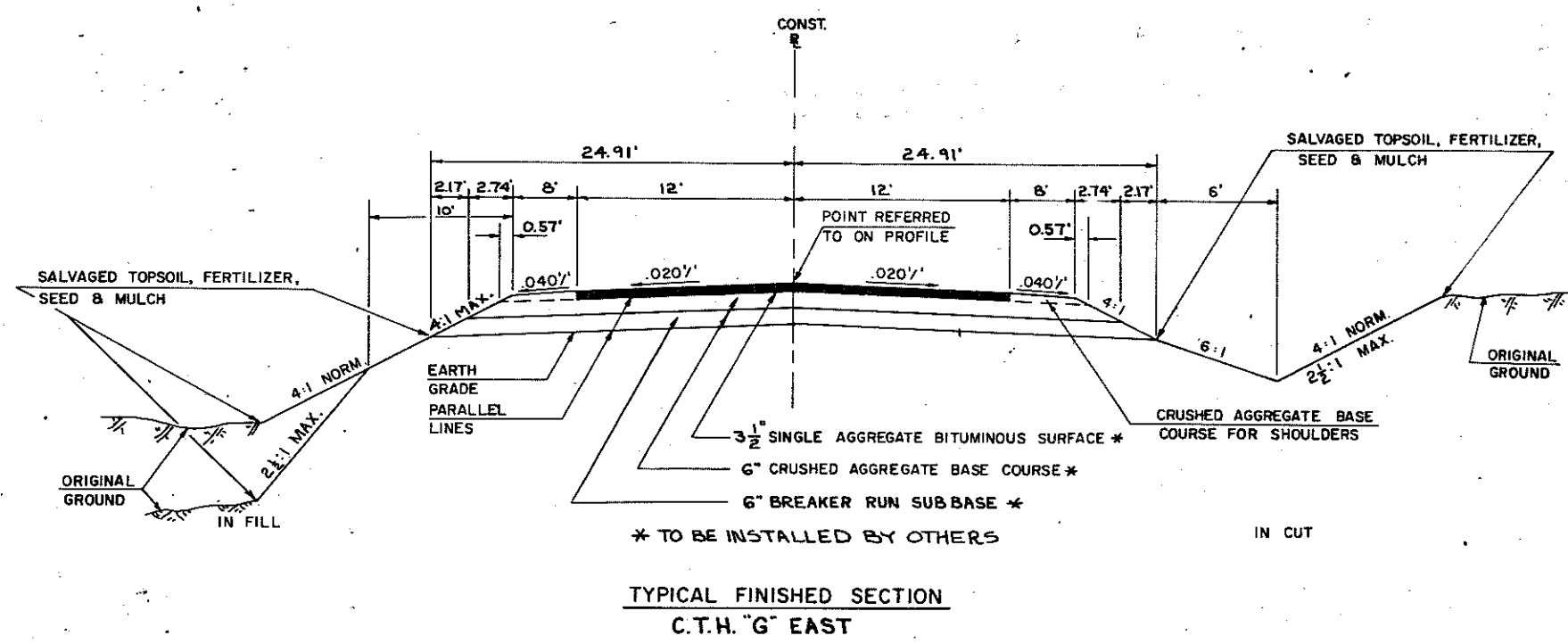
Approved:
 Date 12-2-86 *[Signature]*
 District Transportation Director

Approved:
 Date 12-1-86 *[Signature]*
 STATE DESIGN ENGINEER FOR HWY.

Approved:
 Date 12-2-86 *[Signature]*
 DIRECTOR OF ENGINEERING

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 REGION 5 WISCONSIN DIVISION

Approved:
 Date



GENERAL NOTES

PRIVATE UTILITY COMPANIES SHALL ADJUST OR MOVE ALL PRIVATELY-OWNED FACILITIES TO FIT THE NEW CONSTRUCTION. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS, AS SHOWN ON THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH A BRASS MARKER TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

TIMBER GUARD RAIL POST ANCHORS SHALL BE INSTALLED BY CONTRACTOR. BEAM GUARD SHALL BE INSTALLED BY OUTAGAMIE COUNTY.

STANDARD DETAIL DRAWINGS

SILT FENCE	8E9-2
NAME PLATE-STRUCTURES	12A3-4
CONSTRUCTION BARRICADES AND STANDARD SIGNS	15C1-7

UTILITIES

WISCONSIN ELECTRIC POWER COMPANY
MIKE JAMES
520 N. SECOND STREET
MILWAUKEE, WI. 53203
414-277-2719

WISCONSIN GAS COMPANY
DEAN SULLIVAN
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
715-423-2700

GENERAL TELEPHONE COMPANY OF WISCONSIN
R.J. DUCKETT
3203 LINCOLN AVENUE
TWO RIVERS, WI 54241
414-793-4549

DIGGERS HOTLINE 1-800-242-8511 (TOLL FREE)

ESTIMATE OF QUANTITIES

DATE 01/02/87

PROJECT ID: 6007-01-75
OUTAGAMIE COUNTY
STH 47 - SEYMOUR
BLACK CREEK BRIDGE
GTH "G"

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6007-01-75 QUANTITY
20352	REMOVING OLD BRIDGE, STATION 393+72	L.S.	1.00	1.00
20620	EXCAVATION FOR STRUCTURES, CULVERTS B-44-109	L.S.	1.00	1.00
20901	GRANULAR BACKFILL	C.Y.	751.00	751.00
50401	CONCRETE MASONRY, CULVERTS	C.Y.	165.00	165.00
50505	HIGH-STRENGTH BAR STEEL REINFORCEMENT, CULVERTS	LB.	14,570.00	14,570.00
50601	STRUCTURAL CARBON STEEL	LB.	226.00	226.00
60602	HEAVY RIPRAP	C.Y.	45.00	45.00
61912	MOBILIZATION, PROJECT 6007-1-75	L.S.	1.00	1.00
64303	TRAFFIC CONTROL, PROJECT 6007-1-75	L.S.	1.00	1.00
90647	SILT FENCE	L.F.	100.00	100.00
90648	SILT FENCE MAINTENANCE	L.F.	100.00	100.00

1987

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

REVISION DATE

ROUTE

COUNTY

DATE

R/W PROJECT NUMBER

6007-1-00

FEDERAL PROJECT NUMBER

6007-1-71/4.2

SHEET
NUMBER

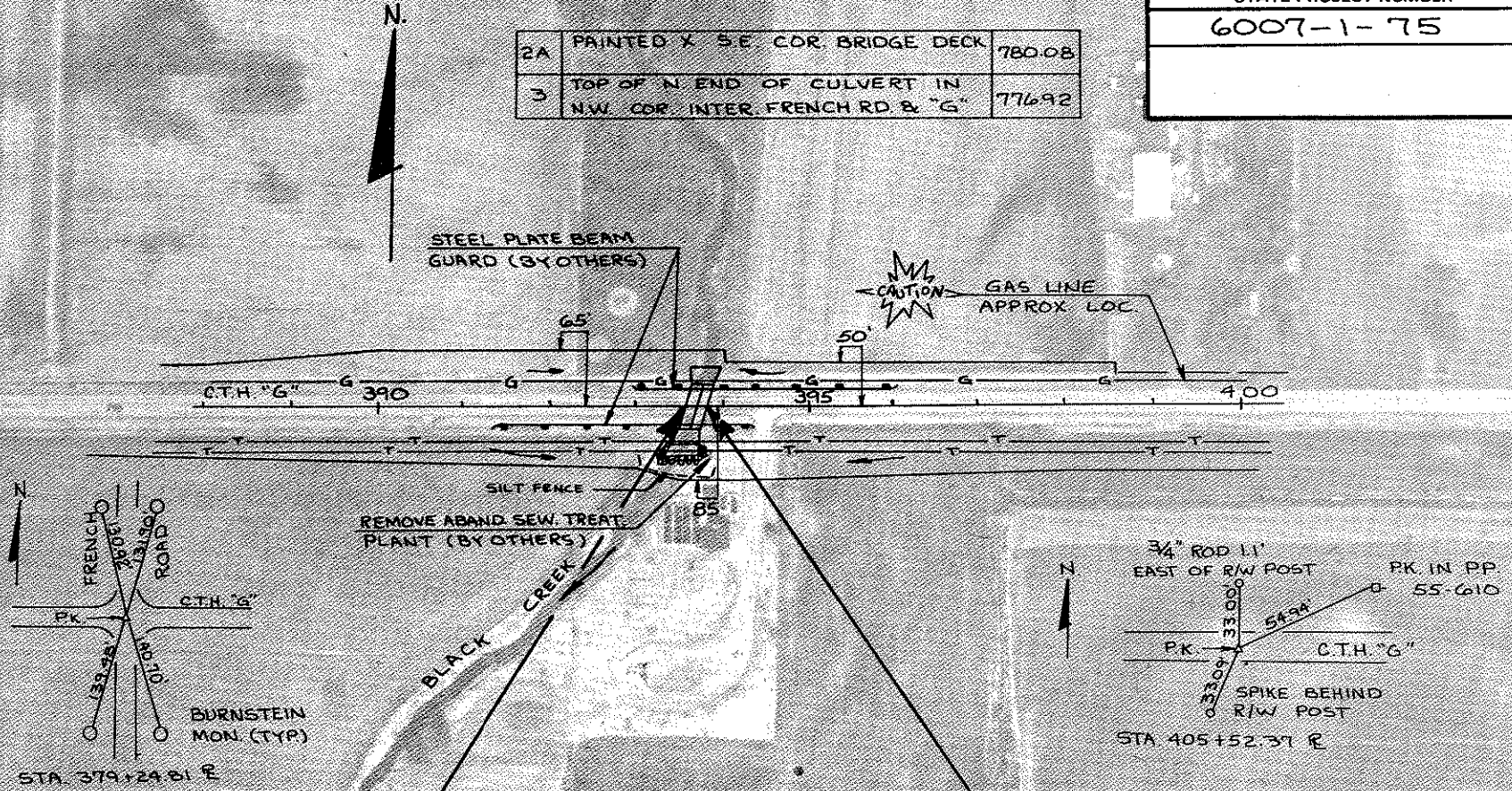
4.2

6007-1-75 4.0

PARCEL NO.	SHEET NO.	OWNER	INTEREST REQUIRED	TOTAL ACRES	RAW ACRES REQ'D			TOTAL L.H.E.	
					NEW	EXIST.	TOTAL	REM.	TEMP.
51									
52									
53	4.12	LYNN KOLLATH ET AL	FEE	40.00	0.40	1.00	1.40	38.60	
54	4.12	RICHARD W. & VIRGINIA WACHTEN DONK	FEE	38.41	0.40	0.78	1.18	37.23	
55									
56									
57									
58	4.12	LUCILLE B. WERNER	FEE	30.00	0.08	0.58	0.66	29.34	
59	4.12	H. WENZEL SCHLEICHER	FEE	1.59	0.08	0.30	0.38	1.21	
60									
61	4.13	ELAINE A. COURT	FEE	80.00	0.67	1.08	1.75	78.25	
62	4.13	EARL & MARCELLA COURT	FEE	40.00	0.72	1.09	1.81	39.19	
63	4.13	DAVID PEOTTER	FEE	2.00	0.24	0.00	0.24	1.76	
64	4.13-4.14	KARL & SHIRLEY MUENSTER	FEE	58.32	1.45	1.57	3.02	55.30	
65									
66	4.13	CARL L. & BETTE B. IBE	FEE	25.00	0.29	0.61	0.90	24.10	
67	4.14	DANIEL G. & DONNA M. SCHMIDT	FEE	3.00	0.17	0.30	0.47	2.53	
68	4.3	WISCONSIN ELECTRIC POWER COMPANY	FEE	1.00	0.05	—	0.05	0.95	
69	4.3-4.14	GENERAL TELEPHONE COMPANY	RELEASE OF RIGHTS						
70									
71	4.10 4.11, 4.13	WISCONSIN ELECTRIC POWER COMPANY	RELEASE OF RIGHTS						
72	4.14	CITY OF SEYMOUR	FEE	0.90	0.06	0.04	0.10	0.80	

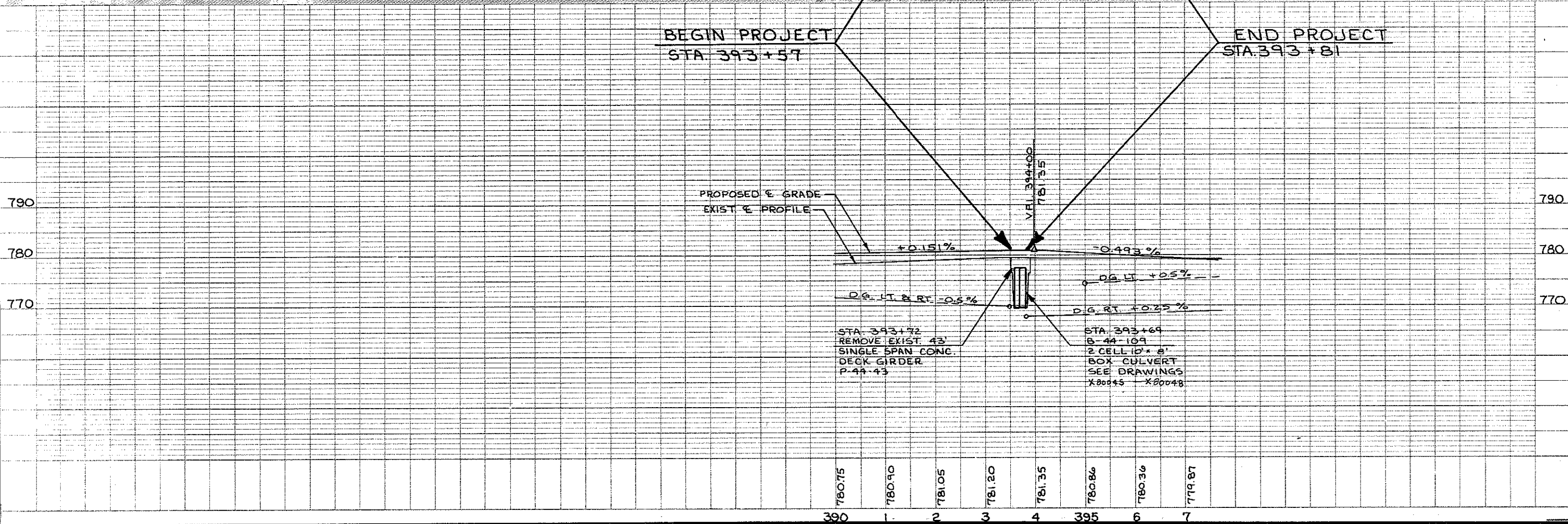
STATE PROJECT NUMBER	SHEET NO.
6007-1-75	5.0

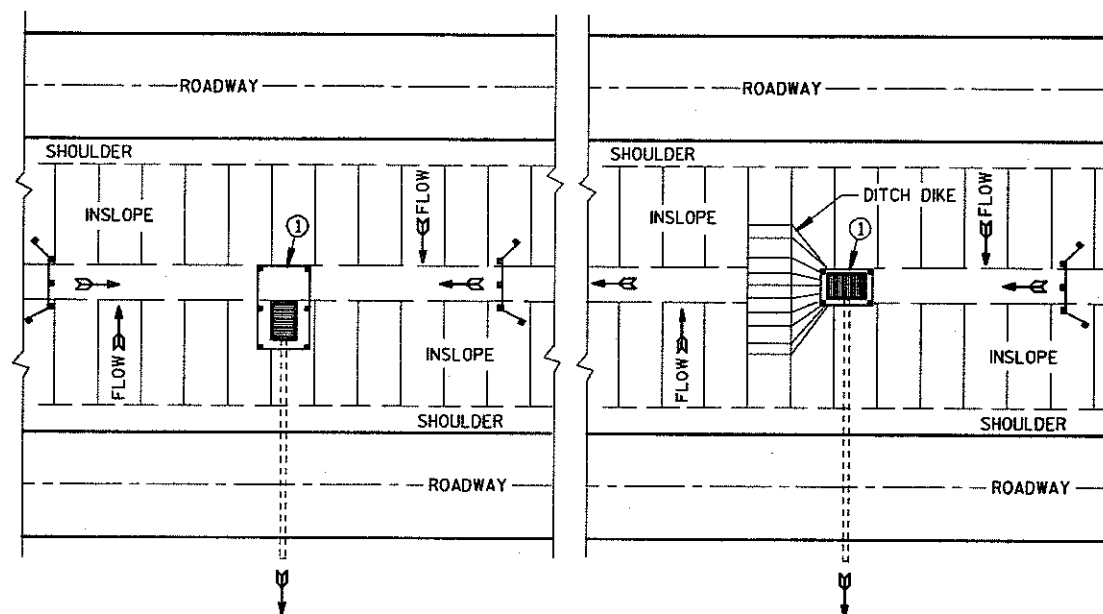
2A	PAINTED X SE COR. BRIDGE DECK	780.08
3	TOP OF N END OF CULVERT IN N.W. COR. INTER. FRENCH RD. & "G"	776.92



BEGIN PROJECT
STA. 393+57

END PROJECT
STA. 393+81





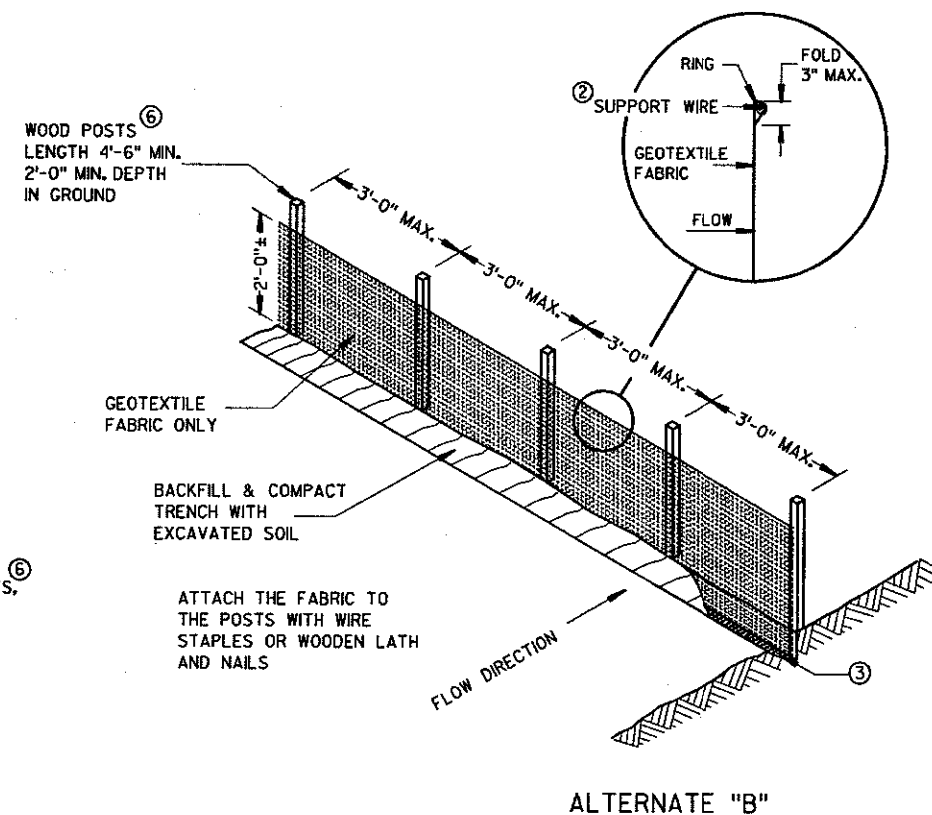
SITUATION 2

SILT FENCE AT MEDIAN SURFACE DRAINS

- ① CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
- ② MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.
- ③ EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ④ WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C-C.
- ⑤ GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF $\frac{3}{4}$ " OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
- ⑥ STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS./LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIA. OR $1\frac{1}{2}$ " X $3\frac{1}{2}$ " EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF $1\frac{1}{8}$ " X $1\frac{1}{8}$ " OAK OR HICKORY.

PLAN VIEW

TYPICAL APPLICATIONS OF SILT FENCE

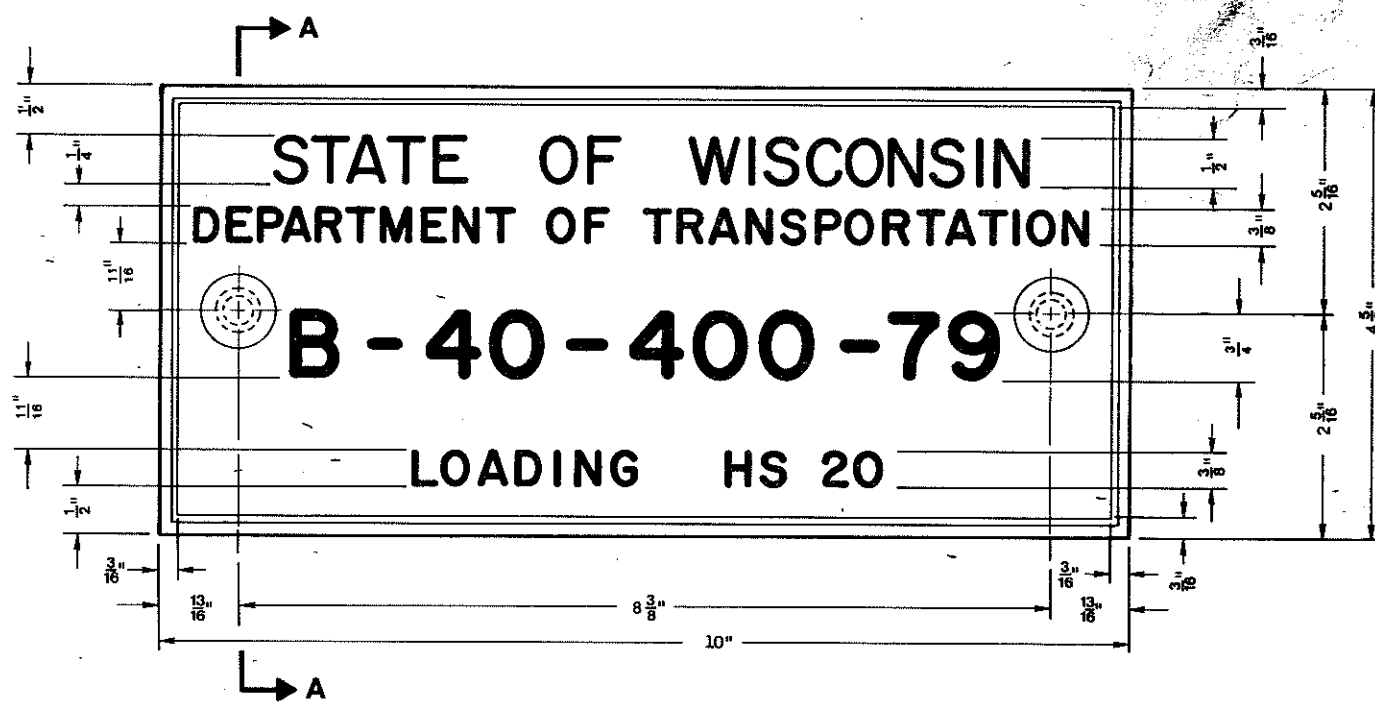


A cross-sectional diagram showing a silt fence (a vertical wall) and a tieback system. A diagonal line representing the tieback connects the top of the silt fence to an anchor stake driven into the ground. The ground is indicated by a hatched pattern. An arrow labeled 'FLOW DIRECTION' points from left to right, passing behind the silt fence. Labels with leader lines identify the 'TIEBACK BETWEEN FENCE POST AND ANCHOR', the 'SILT FENCE', the 'FLOW DIRECTION', and the 'ANCHOR STAKE MIN. 18" LONG'.

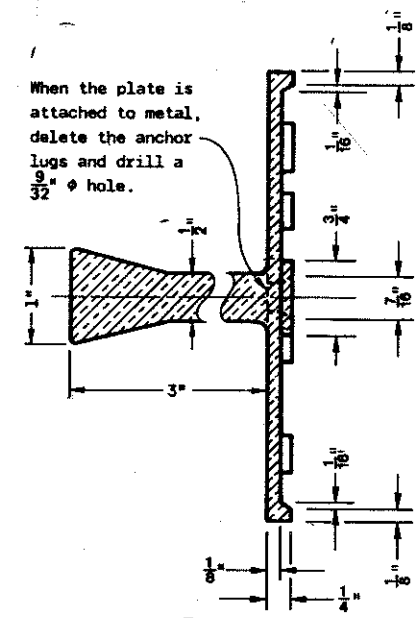
Diagram illustrating the installation of a geotextile fabric. The fabric is shown being laid over a surface, with an arrow indicating the 'FLOW DIRECTION'. The fabric is labeled 'GEOTEXTILE FABRIC'. A section of the fabric is labeled 'EXCESS FABRIC'. A circled number '3' is placed near the fabric, likely indicating a specific step or detail in the installation process.

TRENCH DETAIL

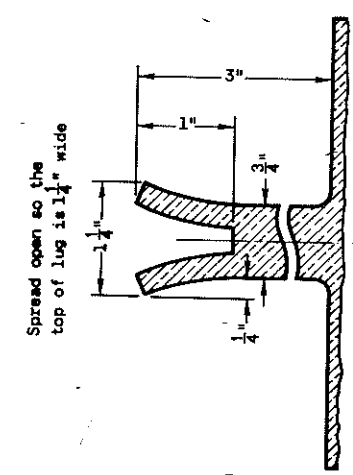
FHWA



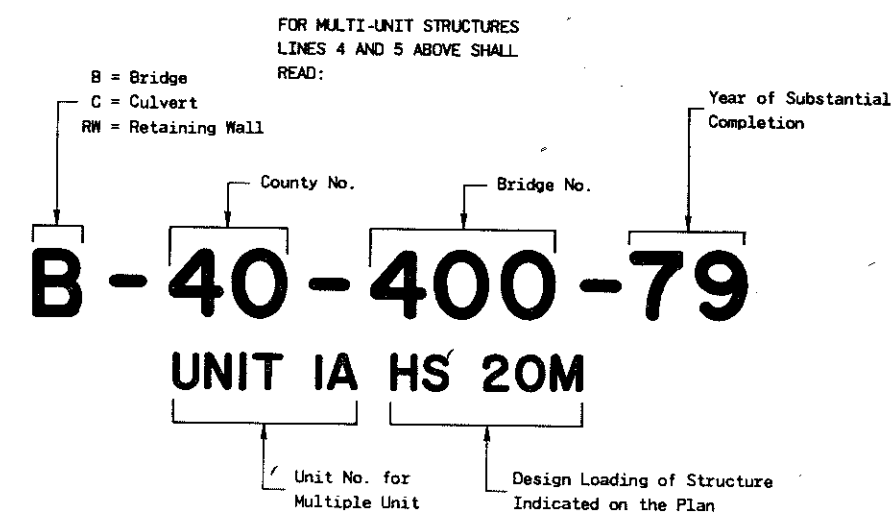
TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



SECTION A-A



ALTERNATE LUG



NUMBERING AND LOADING DESIGNATION
MULTI-UNIT STRUCTURES

GENERAL NOTES

Name Plates to be installed on Bridges, Culverts, and Retaining Walls shall conform to the requirements of Section 506.2.4 of the Standard Specifications.

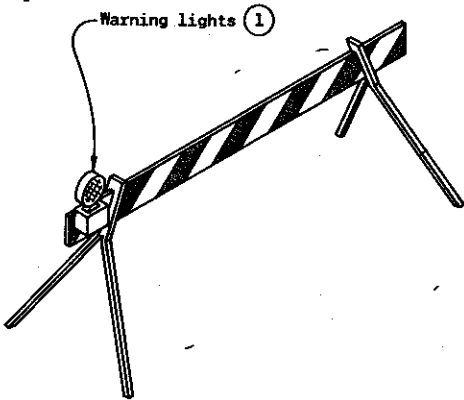
The Bridge Number and Design Loading shown on this drawing are examples only. See Construction Plans for individual numbering and design loading.

NAME PLATE (STRUCTURES)	
State of Wisconsin Department of Transportation Division of Transportation Facilities	
APPROVED 9-27-79 DATE	<i>[Signature]</i> CHIEF DESIGN ENGINEER FHWA

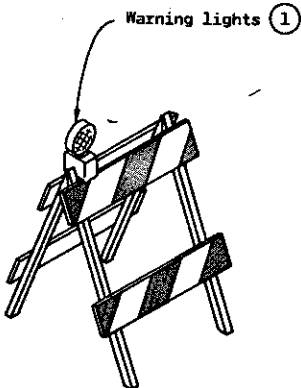
TABLE OF BARRICADE CHARACTERISTICS

BARRICADE TYPE	I	II	III
Height	3' Minimum		5' Minimum
*Rail Width	8" Minimum to 12" Maximum		
Rail Length	2' Minimum		4' Minimum
**Stripe Width	6" at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

* Nominal dimensions when barricade is constructed of lumber.
** Shall be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



R11-2

48" x 30"

Black Lettering on Reflective
White Background
Letter Series "D"
Letter height 8"



W20-3

48" x 48"

Black Lettering on Reflective
Orange Background
Letter Series "D"
Letter height 7"

STANDARD SIGNS - TYPE II

GENERAL NOTES

The contractor shall furnish, erect and maintain barricades and signs. Details regarding location, spacing, dimensions, fabrication, material, sign lettering, lighting devices and color of barricades and signs shall conform to this drawing, the Manual On Uniform Traffic Control Devices, the Standard Specifications, Special Provisions and/or plans.

Type III Barricades and Signs shall be erected at the termini of projects and at other road or street locations where it is necessary to control or eliminate public access to the construction area.

Type I and II Barricades shall be used on projects when traffic is to be maintained through the construction area.

The actual field location of barricade installations and advance signs shall be as directed by the Engineer.

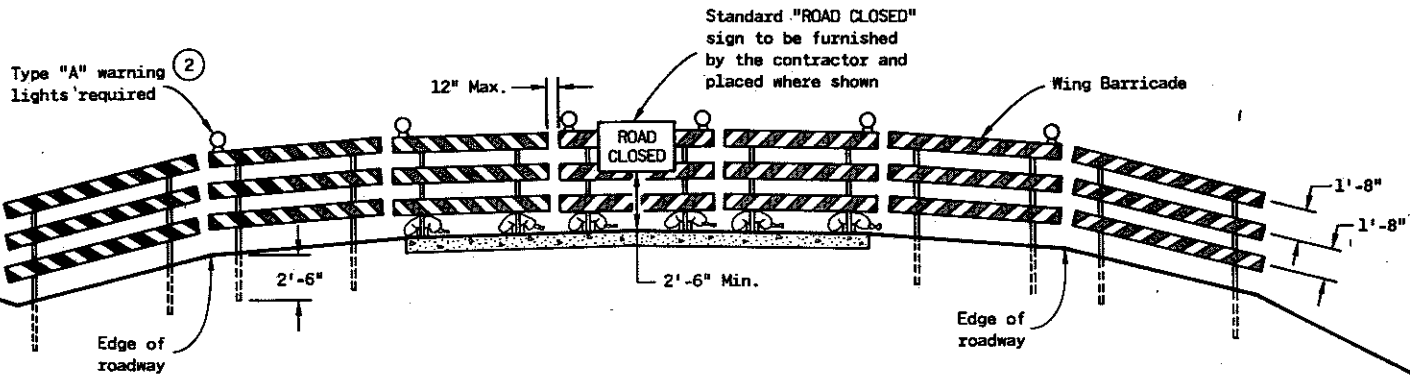
Each barricade shall have the name and telephone number of a person responsible for 24 hour emergency service printed in letters at least $\frac{3}{4}$ inch in height on the barricade rails. Prior to May 1, 1983, such information may be shown on either front or back-faces of the barricade rails. After May 1, 1983, all printed information or identification markings shall be shown only on the back side of barricade rails.

Type I Barricades may include other unstriped horizontal panels necessary to provide stability.

On high speed expressways or in other situations where barricades may be susceptible to overturning in the wind, sandbags should be used for ballasting. Sandbags may be placed on lower parts of the frame or stays to provide the required ballast but shall not be placed on top of any striped rail.

① Unless otherwise provided elsewhere in the contract, warning lights are required on all barricades which will be located near traffic operations during periods of inclement weather or hours of darkness. Barricades used to shield isolated hazards shall be equipped with Type "A" (low intensity - flashing) lights unless Type "B" (high intensity) - flashing lights are specified elsewhere in the contract documents. Barricades used for channelization or delineation of the travel path shall be equipped with Type "C" (steady burn) lights except for the initial barricade(s) in sequence, which shall be equipped with Type "A" or "B" lights as previously noted.

② Two warning lights shall be provided on the center barricade and at least one warning light shall be provided on each of the other barricades within the roadway limits. Spacing of the warning lights shall be uniform to the edge of roadway as shown.



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

CONSTRUCTION BARRICADES

CONSTRUCTION BARRICADES
& STANDARD SIGNS

State of Wisconsin
Department of Transportation

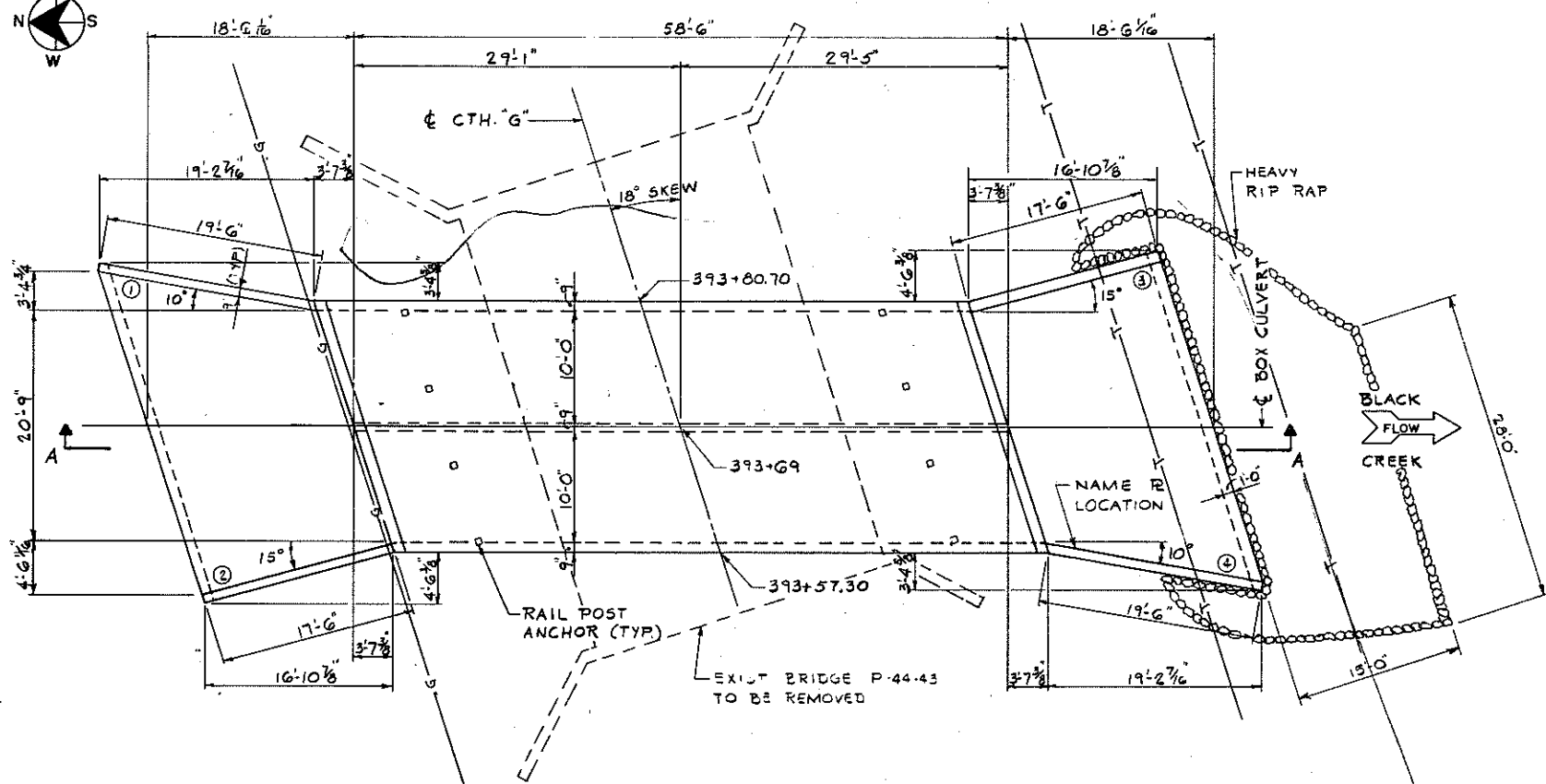
APPROVED

9-14-81

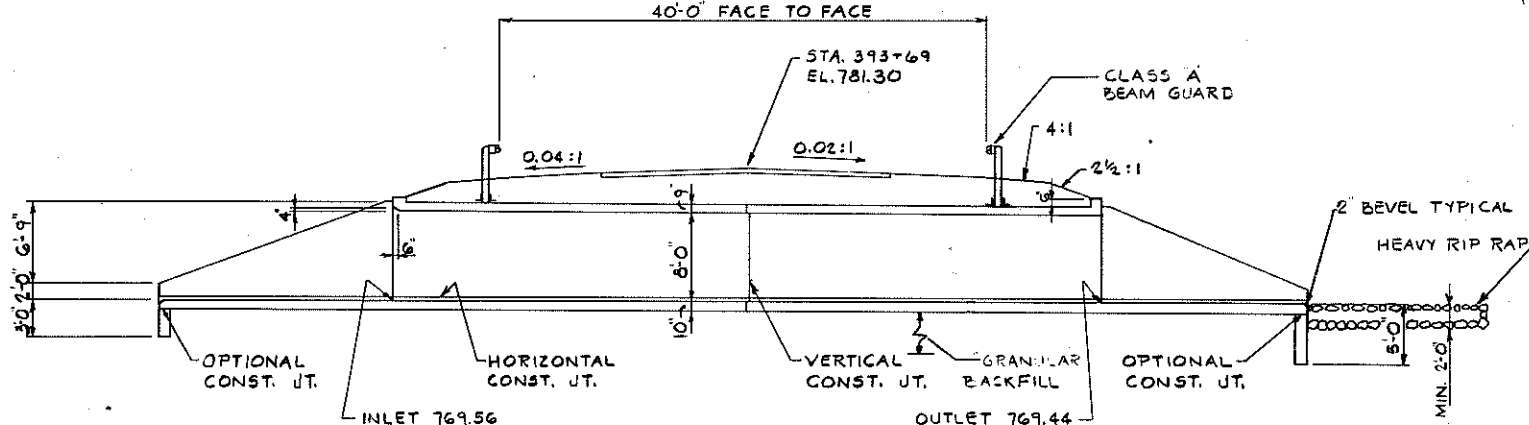
DATE

FHWA

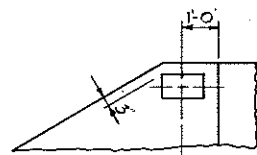
D.D. Strand
CHIEF DESIGN ENGINEER



2 CELL BOX CULVERT
40'-0" FACE TO FACE



SECTION A-A



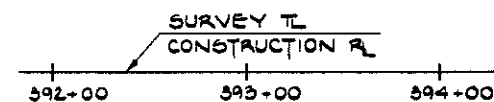
NAME & LOCATION

WING #4

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
2A		PAINTED "X" S.E. CORNER BRIDGE ON CURB	780.08

PROFILE GRADE LINE



ALIGNMENT DIAGRAM

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	TOTAL
REMOVING OLD BRIDGE, STATION 393+72	L.S.	1
CONCRETE MASONRY, CULVERT	C.Y.	165
HIGH-STRENGTH BAR STEEL REINFORCEMENT, CULVERT	L.B.	14370
STRUCTURAL CARBON STEEL	L.B.	226
HEAVY RIPRAP	C.Y.	45
EXCAVATION FOR STRUCTURES, CULVERTS B44-109	L.S.	1
GRANULAR BACKFILL	C.Y.	751
NON-BID ITEMS		
PREFORMED JOINT FILLER	SIZE	3/4"
POLYVINYL CHLORIDE WATERSTOP	L. F.	33

DESIGN DATA

LIVE LOAD — HS 20
EARTH LOAD: DESIGNED FOR 3.0 FEET OF FILL
ALLOWABLE DESIGN STRESSES:
CONCRETE MASONRY, $F_c = 3,500$ PSI
BAR STEEL REINFORCEMENT — GRADE 60, $F_y = 60,000$ PSI

HYDRAULIC DATA

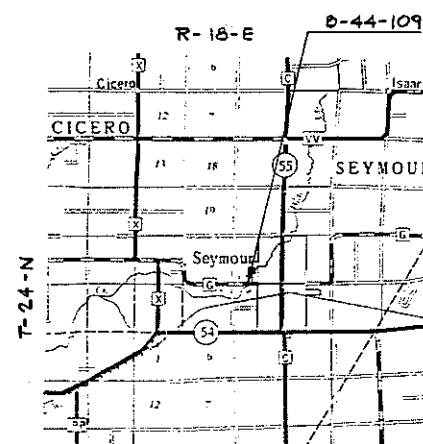
Q100	1300 cfs	VELOCITY	8.1 fps
DRAINAGE AREA	25 SQ. MI.	WATERWAY AREA	160 SQ.FT.
HIGHWATER 100	780.00	OVERTOPPING FLOOD	N/A

TRAFFIC VOLUME

ADT (1987)	1875
ADT. (2007)	5160
RDS	50 MPH

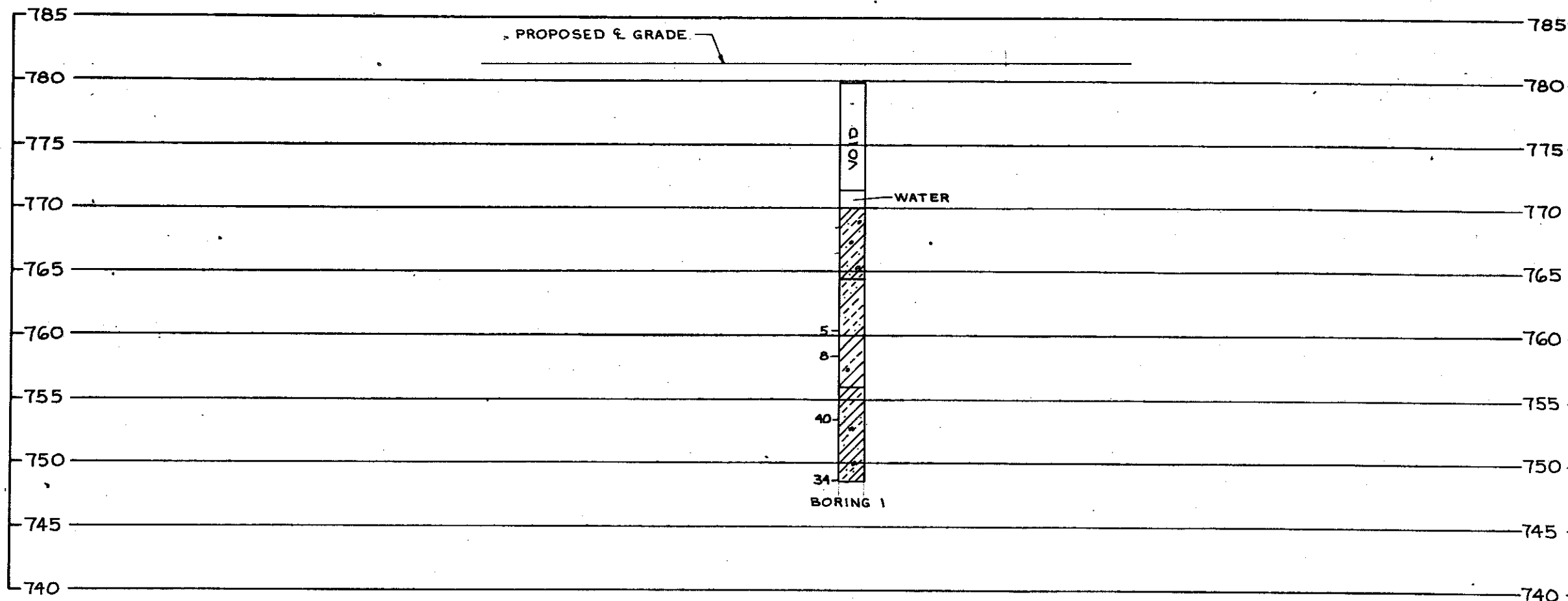
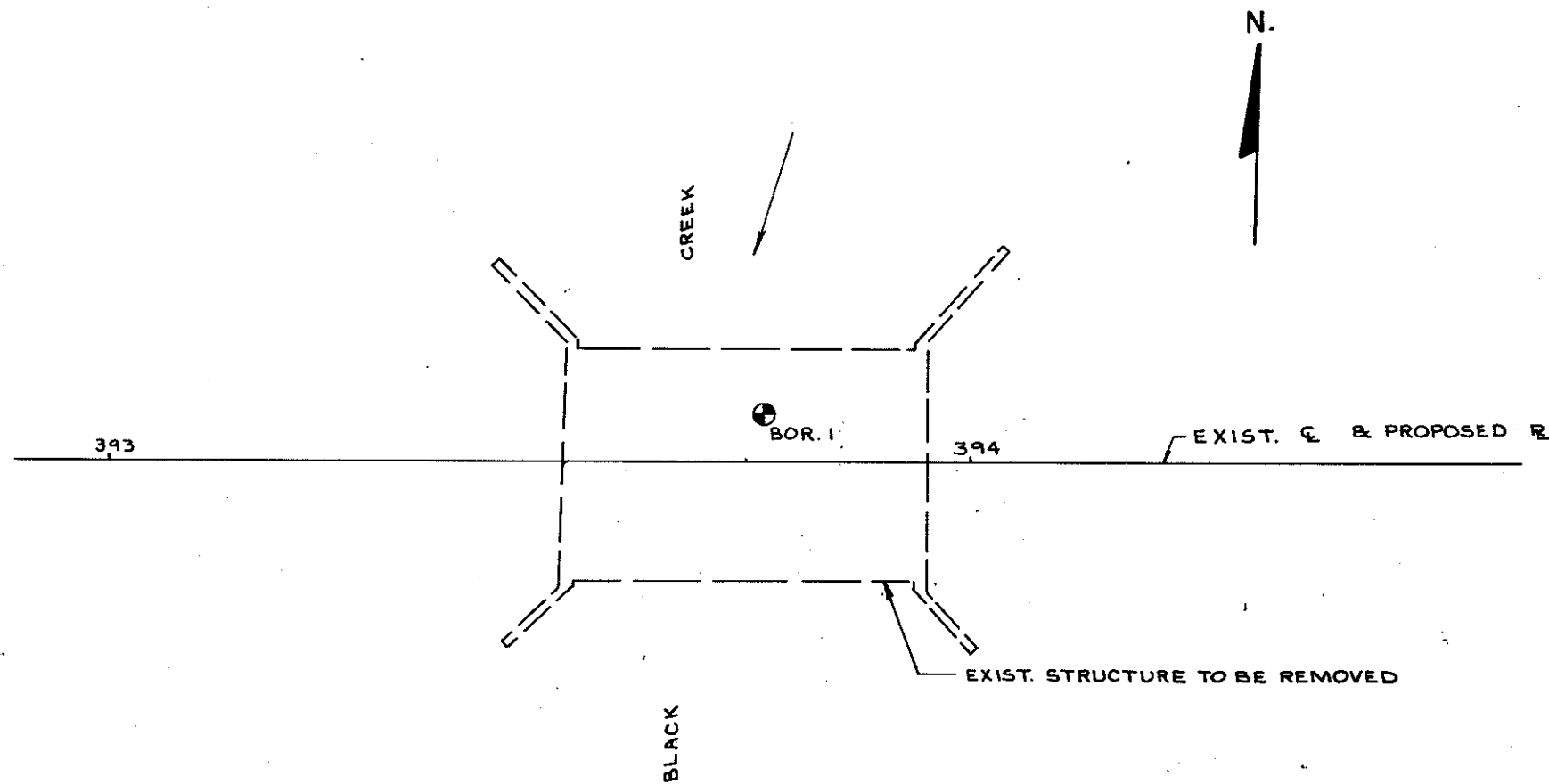
LIST OF DRAWINGS

GENERAL PLAN _____X80045
SUBSURFACE EXPLORATION _____X80046
BOX CULVERT DETAILS _____X80047
INLET AND OUTLET STRUCTURE DETAILS _____X80048



LAYOUT

NO.	Date	Revisions	By
FOTH & VAN DYKE and Associates, Inc. CONSULTING ENGINEERS GREEN BAY, WIS.			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-44- 109			
CTH "G" OVER BLACK CREEK			
County	TOWN OF		SEYMOUR
Design Spec.	AASHTO 1983	Const.	WIS. 1981
Designed G.M.A.	Design	Drawn	Plans D.E.M. G.M.A.
By	D.E.M. Checked	G.M.A. By	PAL Checked P.R.W.
Approved	<i>Stanley W. Zwick</i> State Bridge Engineer		<i>12-15-86</i> Date
GENERAL PLAN		SHEET 1 OF 4	
		X80045	



STATE PROJECT NUMBER		SHEET NO.	
6007-1-75		811	

ABBREVIATIONS			
F — Fine	M — Medium	C — Coarse	
Ws — Weathered	So — Sound		

MATERIAL SYMBOLS			
Topsoil	Silt	Sandstone	
Sand	Peat	Limestone	
Gravel	Clay	Igneous Rock	

LEGEND OF PROBING	
95/6=95 Blows for 6" Penetration Probing taken with a 350# wt. Falling 18" on a 2" O. D. Point.	Probing No. Sta. Elevation 7 Average Blows Per Foot Refusal 95 6

LEGEND OF BORING	
Unconfined Strength — 7.7 Blows Per Ft Using 140# Wt. Falling 30" Wash Sample Shelby Tube — S 1	Boring No. Sta. Elev. Sandy Gravel F. Boulders or Cobbles Sand Silty Clay So Limestone
Ground Water Elevation No Ground Water Observed Above This Elevation	

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O. D. x 1.4" I. D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

No.	Date	Revision	By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

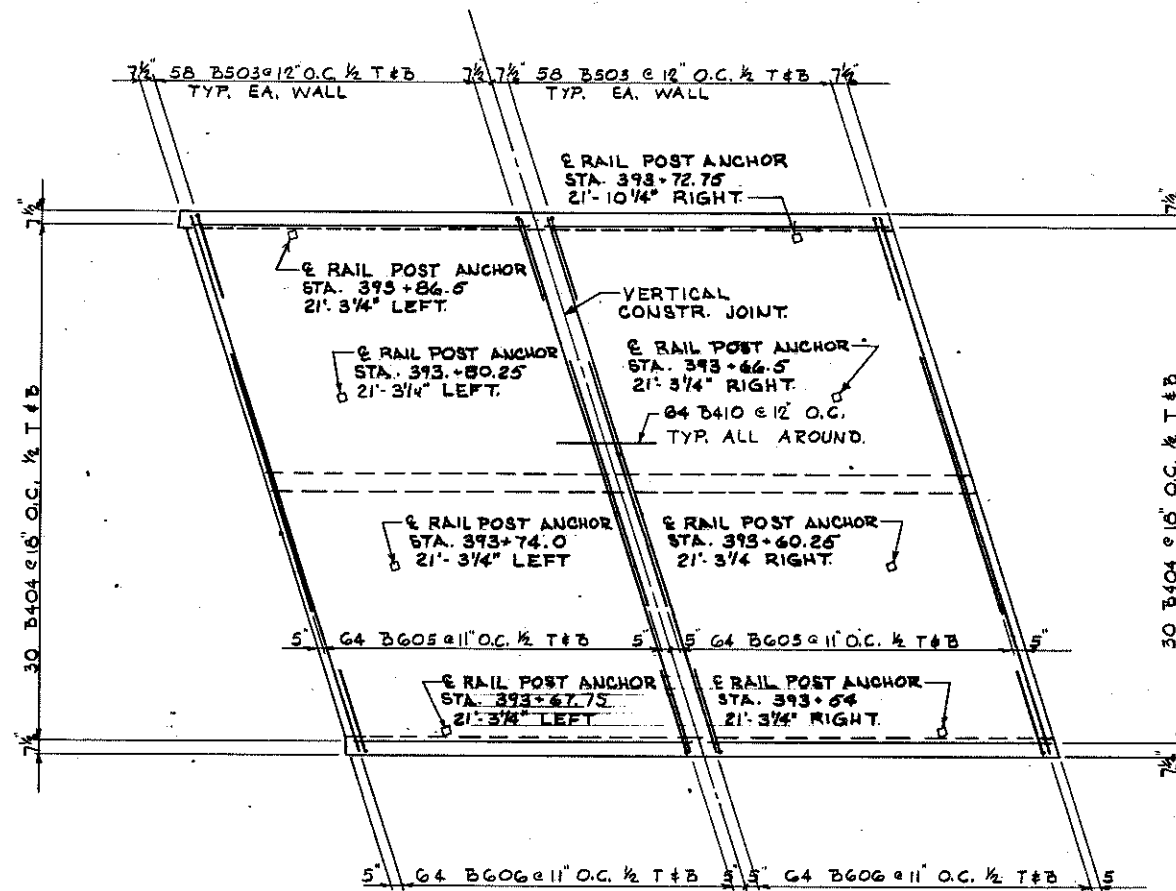
STRUCTURE B-44+109

Const. Spec.	WIS. 1981	Drawn By	L.N.L.	Plans Checked	R.A.M.
--------------	-----------	----------	--------	---------------	--------

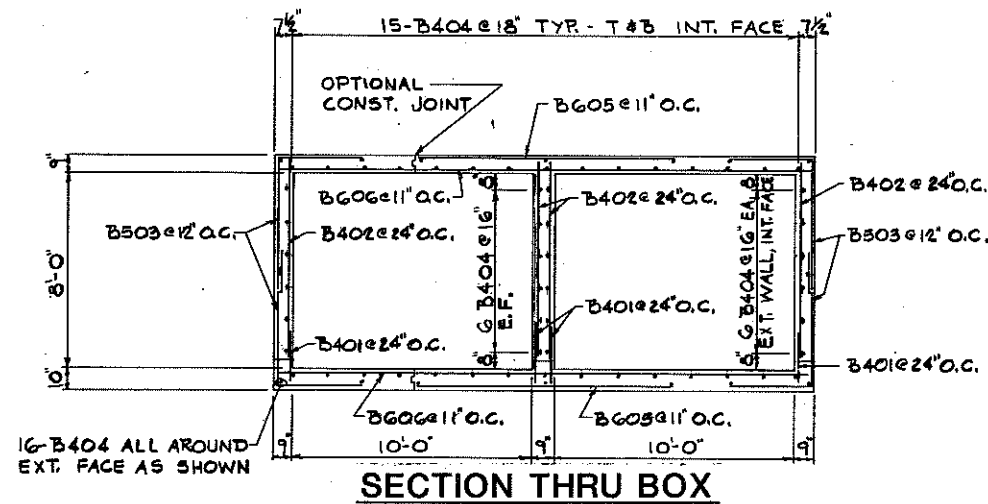
SUBSURFACE EXPLORATION

SHEET 2 OF 4

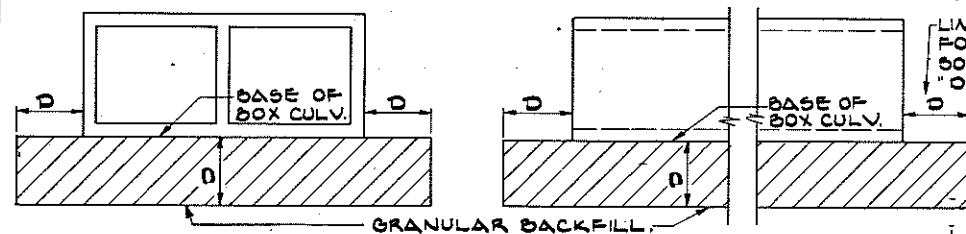
X80046



PLAN VIEW OF BOX

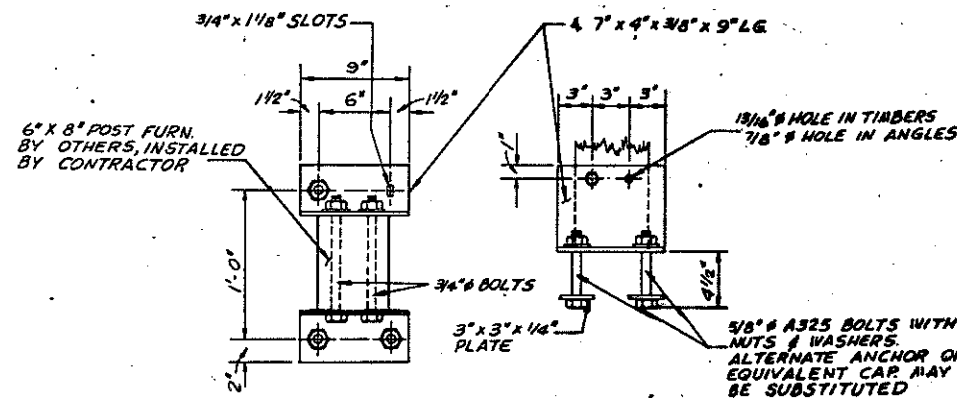


SECTION THRU BOX



CROSS SECTION

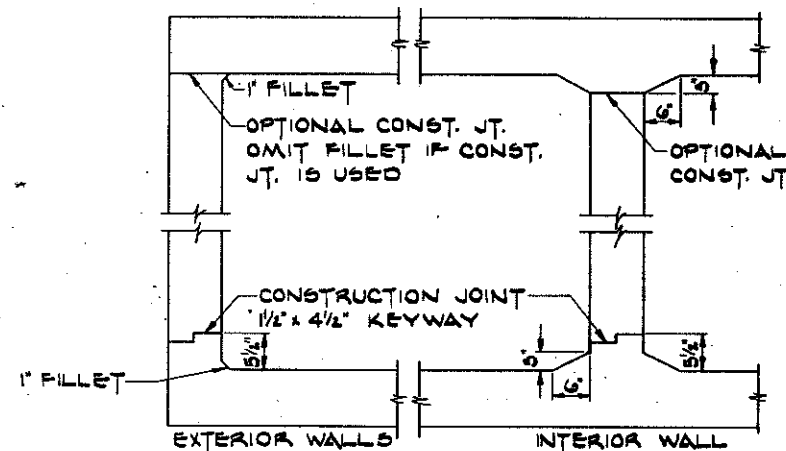
ELEVATION



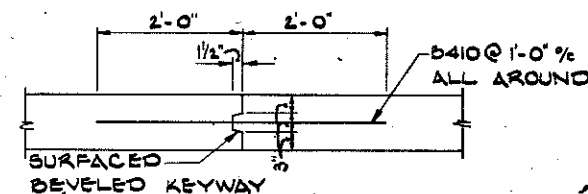
**PLAN ELEVATION
TIMBER GUARD RAIL POST
ANCHORS**

BILL OF BARS FOR BOX 12,120 LBS.				
BAR MARK	NO REQD	LENGTH	WEIGHT	LOCATION
B401	120	2'-2"		DOWELS SLAB TO WALLS
B402	120	8'-1"		VERTICAL IN WALLS
B503	232	8'-1"	X	"
B404	140	28'-11"		HORIZONTAL THROUGH OUT
B605	128	10'-0"		TRANSVERSE
B606	128	28'-0"		"
B407	4	23'-0"		HEADERS HORIZONTAL
B505	31	2'-8"	X	HEADER STIRRUPS INLET
B509	31	2'-0"	X	HEADER STIRRUPS OUTLET
B410	64	4'-0"		AT CONSTRUCTION JOINT

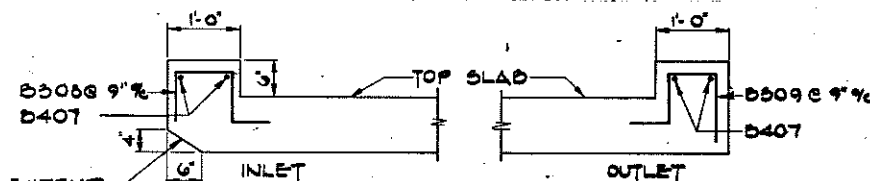
2'-8"	8'-0"	8'-0"	8'-0"	8'-0"
B503	B308	B309	A	B
			C	D
			8"	8"
			8"	8"
			8"	8"



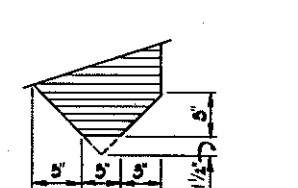
HORIZONTAL CONSTRUCTION JOINT



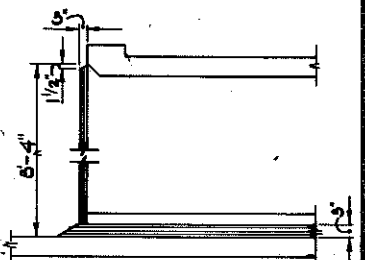
VERTICAL CONSTRUCTION JOINT



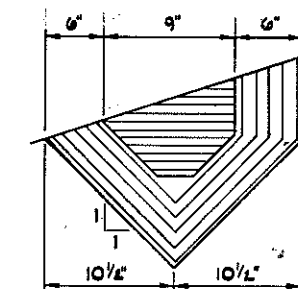
SECTION THRU HEADER



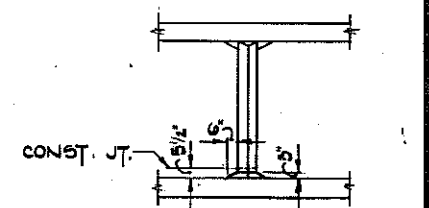
PLAN



SECTION



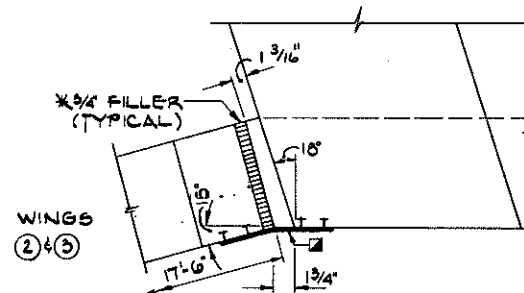
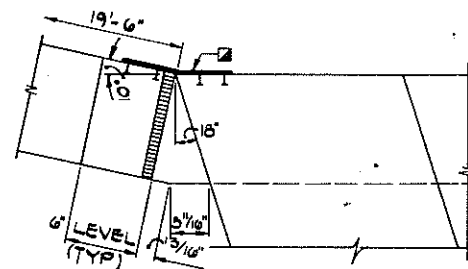
PLAN



ELEVATION

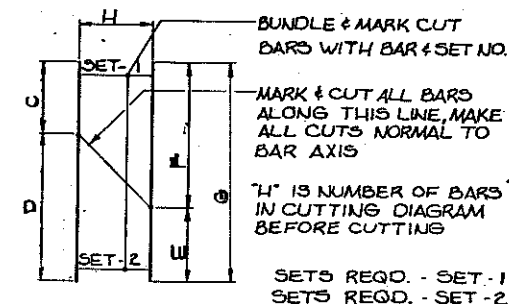
INLET NOSE CENTERWALL DETAILS

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE - B-44-109			
Const. Spec. WIS. 1981	Drawn By DLD	Place DEM. GMA	Checked DSG
BOX CULVERT DETAILS			SHEET 2 OF 4
			X80047



■ P.C.W. - EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WALL. HOLD FLUSH TO CONCRETE.

* EXTEND FILLER FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING. DO NOT RUN ANY STEEL THRU JOINT FILLER.



<u>UD401</u>	2'-6"	4'-6"
<u>UD402</u>	2'-10"	4'-6"
<u>UD403</u>	5'-2"	4'-6"
<u>UD404</u>	5'-6"	4'-6"
<u>UD405</u>	5'-0"	4'-6"
<u>UD510</u>	5'-6"	4'-6"
<u>UD418</u>	2'-6"	1'-0"
<u>UD419</u>	4'-6"	1'-0"

BAR MARK	NO REQD	LENGTH	BENT	CUT	LOCATION
UD401	4	6'-11"	X		TIES APRON TO WING
UD402	4	7'-5"	X		" " " "
UD403	4	7'-7"	X		" " " "
UD404	4	7'-11"	X		" " " "
UD405	40	7'-5"	X		" " " "
UD406	11	9'-2"		X	19'-6" WINGS VERTICAL
UD407	2	19'-2"			19'-6" WINGS HORIZONTAL
UD408	5	16'-5"	X		" " " "
UD509	4	19'-11"			19'-6" WINGS @ TOP
UD510	20	7'-11"	X		TIES APRON TO WING
UD511	5	14'-9"		X	19'-6" WINGS VERTICAL
UD412	9	9'-5"		X	17'-6" WINGS VERTICAL
UD413	2	17'-2"			17'-6" WINGS HORIZONTAL
UD414	5	16'-11"	X		" " " "
UD515	4	18'-0"			17'-6" WINGS @ TOP
UD516	5	14'-7"		X	17'-6" WINGS VERTICAL
UD417	3	20'-6"			CUT OFF WALLS HORIZONTAL
UD418	31	3'-5"	X		INLET CUT OFF WALL
UD419	31	5'-5"	X		OUTLET CUT OFF WALL
UD420	22	20'-6"			APRONS
UD421	4	18'-10"		X	"
UD422	5	18'-11"		X	"
UD423	2	30'-9"			"
UD424	16	21'-0"		X	"
UD425	16	35'-2"		X	"



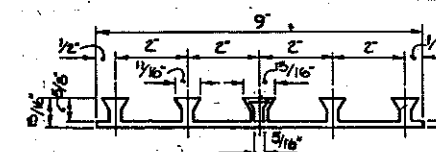
	MARK	C	D	E	F	G	H	SETS BEH.
UD406	BET 1	2'-10"	—	—	6'-4"	9'-2"	11	1
	BET 2	—	6'-4"	2'-10"	—	—	11	1
UD408	BET 1	0'-11"	—	—	17'-6"	16'-5"	5	1
	BET 2	—	17'-6"	0'-11"	—	—	5	1
UD511	BET 1	6'-8"	—	—	8'-1"	14'-9"	5	1
	BET 2	—	8'-1"	6'-8"	—	—	5	1
UD412	BET 1	5'-1"	—	—	6'-2"	9'-5"	9	1
	BET 2	—	6'-2"	5'-1"	—	—	9	1
UD414	BET 1	0'-11"	—	—	16'-0"	16'-11"	5	1
	BET 2	—	16'-0"	0'-11"	—	—	5	1
UD516	BET 1	6'-6"	—	—	8'-1"	14'-7"	5	1
	BET 2	—	8'-1"	6'-6"	—	—	5	1
UD421	BET 1	2'-0"	—	—	16'-10"	18'-10"	4	1
	BET 2	—	16'-10"	2'-0"	—	—	4	1
UD422	BET 1	1'-9"	—	—	17'-2"	18'-11"	5	1
	BET 2	—	17'-2"	1'-9"	—	—	5	1
UD424	BET 1	9'-0"	—	—	10'-0"	21'-0"	8	2
	BET 2	—	12'-0"	11'-0"	—	—	8	2
UD425	BET 1	15'-6"	—	—	17'-10"	55'-2"	8	2
	BET 2	—	19'-8"	17'-4"	—	—	8	2



THE CONCRETE IN THE CUT-OFF WALL
MAY BE PLACED UNDERWATER IF THE
EXCAVATION CANNOT BE DEWATERED



THE ALTERNATE CUT-OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT-OFF WALLS.



POLYVINYL CHLORIDE
WATERSTOP

No.	Date	Revision		By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS				
STRUCTURE-R-44-109				
Const. Spec.	WIS. 1981	Drawn By	DLD	Plans DEM, G ² & Checked DS
UPSTREAM & DOWNSTREAM			SHEET 4 OF	
STRUCTURE DETAILS			X80048	

