

PLAN 898

PLAN 898

Index of Sheets

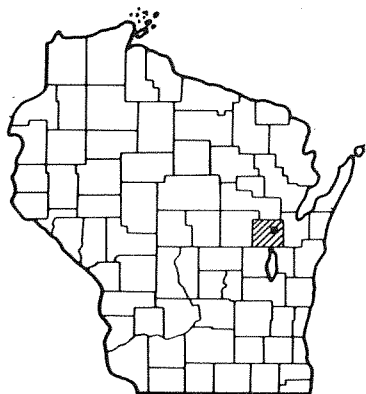
Sheet No.	1	Title
Sheet No.	2	Typical Sections and Details
Sheet No.	3	Estimate of Quantities
Sheet No.	—	Miscellaneous Quantities
Sheet No.	4 - 4.I	Right of Way Plat
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Sheet No.	—	Cross Sections

TOTAL SHEETS = 20

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT
C.T.H. "H" — C.T.H. "E"
DUCK CREEK AND BRANCH DUCK CREEK BRIDGES

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6004 - 1 - 71	—	—

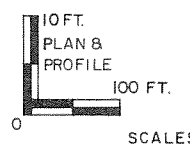


AS BUILT PLAN
NO. 898

SUPERVISOR G.E. BETHKE
RESIDENT L. RINGBLUM
CONTRACTOR BLEICK
COMPLETED 9-27-83

C.T.H. "EE"
OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6004 - 1 - 71



AS BUILT
NO CHANGES

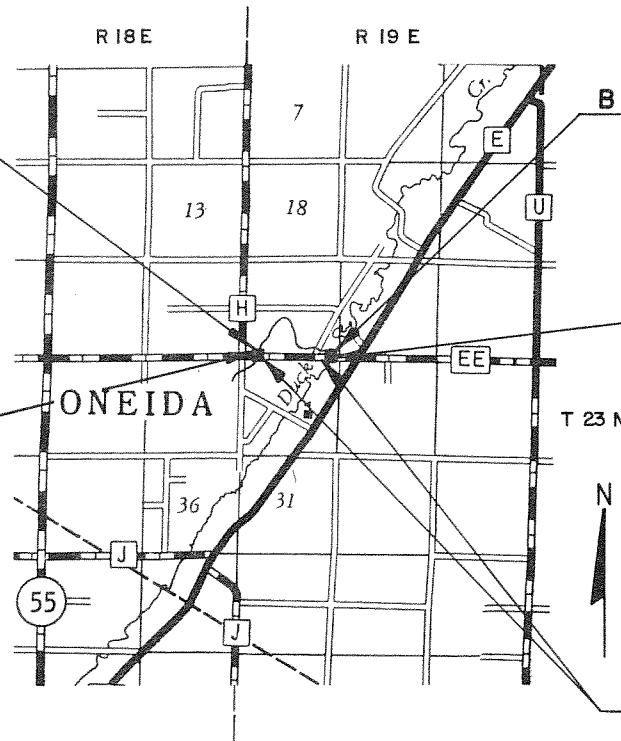
Design Designation

A.D.T. 1983 = 800
A.D.T. 2003 = 1150
D.H.V. 2003 = 115
D. = 60/40
T. = 5%
V. = 55 M.P.H.

Conventional Signs

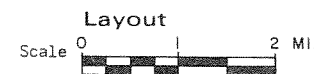
County Line	-----	Caution Symbol (Combustible fluids under pressure)	
Township or Range Line	-----	Railroads	
Section Line	-----	Fence	
Corporate or City Limits	-----	Culverts in Place	
Property line	-----	Culverts Required	
Lot Line	-----	Power Pole	
Existing Right of Way Line	-----	Telephone or Telegraph 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	

BEGIN PROJECT 6004-1-71
STATION 102+76.05
* N 227,700 (± 100')
* E 2,457,000 (± 100')



END PROJECT 6004-1-71
STATION 150 + 16.92

EXCEPTION TO NET CENTERLINE LENGTH
STA. 102 + 97.95 TO STA. 149 + 25.08



Total Net Length of Centerline = 0.022 Mi. RURAL

NOTE:
* - ALL COORDINATES SHOWN ON THIS PLAT ARE SCALED FROM USGS TOPOGRAPHIC MAP, ONEIDA SOUTH, WIS. 7.5 MIN. QUADRANGLE (CENTRAL ZONE) FOR IDENTIFICATION ONLY.

APPROVED
FOR
OUTAGAMIE COUNTY

8-10-82 Michael Maud
DATE SIGNATURE OF OFFICIAL

PLANS PREPARED
BY
OWEN AYRES & ASSOCIATES, INC.
CONSULTING ENGINEERS
GREEN BAY, WISCONSIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor _____ District Checker _____
Designer _____ C.O. Checker BUE
District Supervisor J.E.F. C.O. Coordinator M.W.T.

Approved:
Date 10/27/82 C. Ryan, PE
District Transportation Director

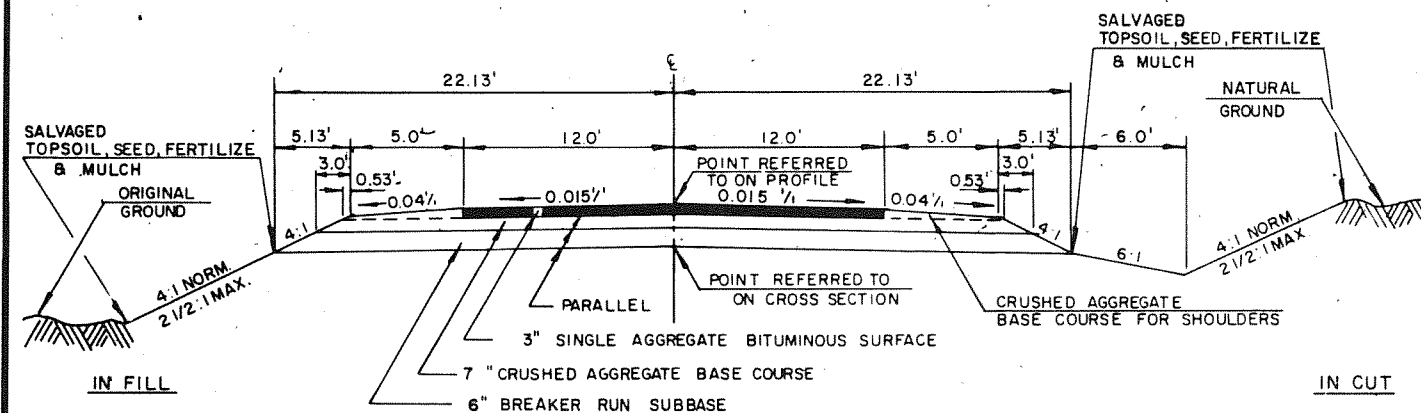
Approved:
Date 12-3-82 D.D. Shum
Chief Design Engineer

Approved:
Date 12/1/82 E.J. Byrkit
Director Development

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

Approved:
Date _____
Division Administrator

FEDERAL PROJECT NUMBER	SHEET NO.
6004 - 1 - 71	2
TYPICAL SECTIONS FOR C.T.H. "EE" OUTAGAMIE COUNTY	



TYPICAL FINISHED SECTION FOR C.T.H. "EE"
(FOR REFERENCE ONLY)

UTILITIES

ONEIDA COMMUNITY HEALTH CENTER
824 DOUBLE E ROAD
DE PERE, WI. 54115
ATTENTION: MR. JOHN SPANGBERG
TELEPHONE: 1 (414) 869-2711 EXT. 256

NORTHEAST TELEPHONE COMPANY
122 SOUTH ST. AUGUSTINE STREET
PULASKI, WI. 54162
ATTENTION: MR. ROBERT H. RIORDAN
TELEPHONE: 1 (414) 822-3201

WISCONSIN TELEPHONE COMPANY
114 E. COLLEGE AVE.
P.O. BOX 2159
APPLETON, WI. 54913
ATTENTION: MR. MARV ROBERTSON
TELEPHONE: 1 (414) 735-3253

WISCONSIN ELECTRIC POWER COMPANY
P.O. BOX 1699
APPLETON, WI. 54913
ATTENTION: MR. D. P. O'SHASKY
TELEPHONE 1 (414) 735-8450

STANDARD DETAIL DRAWINGS

NAME PLATE STRUCTURES 12 A3 - 4
CONSTRUCTION BARRICADES AND
STANDARD SIGNS 15 C1 - 7

GENERAL NOTES

ALL DISTANCES ARE GROUND DISTANCES.
ALL BEARINGS ARE TRUE BEARINGS.
ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.
THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
THE WISC. D.O.T. WILL FURNISH A MONUMENT TO BE SET BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER.
PLAN AND PROFILE SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY.

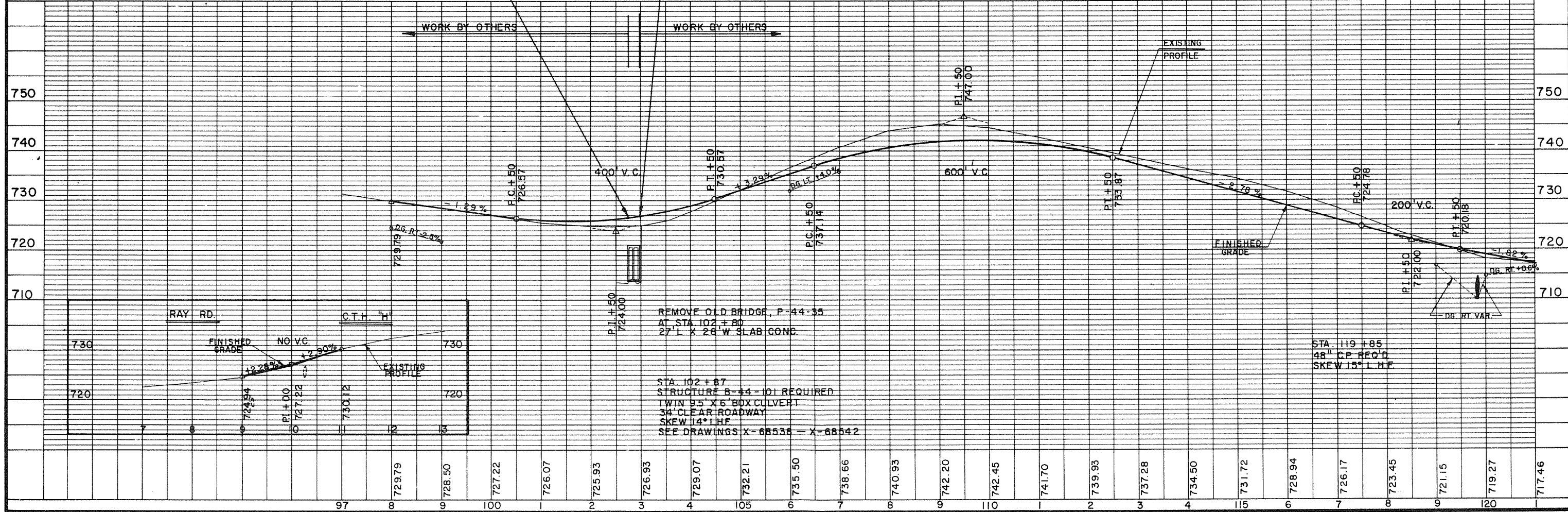
ESTIMATE OF QUANTITIES

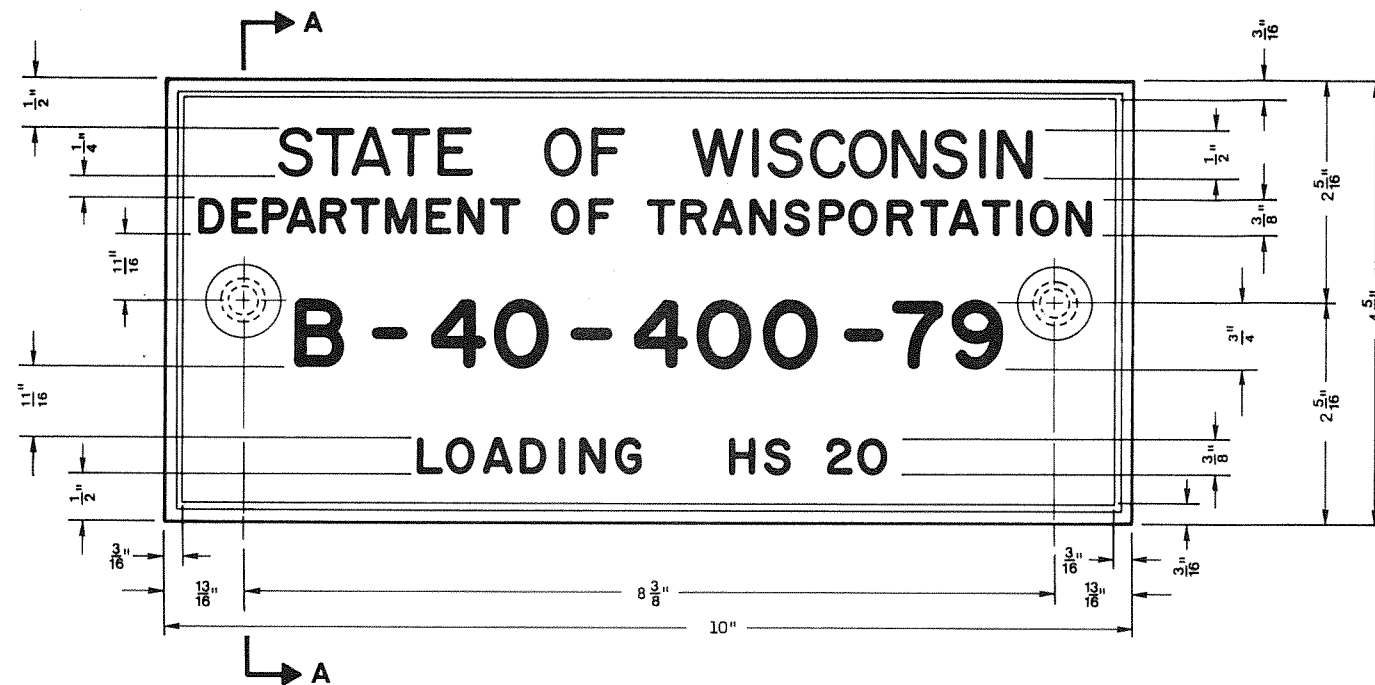
DATE 03/02/83

PROJECT ID: 6004-01-71
OUTAGAMIE COUNTY
C.T.H. "H"-C.T.H. "E"
DUCK CREEK AND BRANCH DUCK CREEK BRIDGES
C.T.H. "EE"

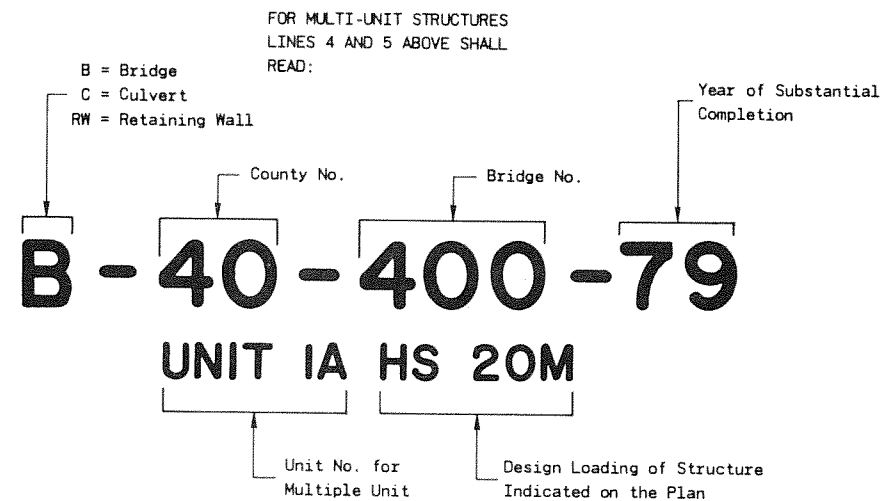
ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6004-01-71 QUANTITY
20351	REMOVING OLD BRIDGE, STATION 102+80	L.S.	1.00	1.00
20352	REMOVING OLD BRIDGE, STATION 149+70	L.S.	1.00	1.00
20610	EXCAVATION FOR STRUCTURES, BRIDGES B-44-101	L.S.	1.00	1.00
20611	EXCAVATION FOR STRUCTURES, BRIDGES B-44-102	L.S.	1.00	1.00
50201	CONCRETE MASONRY, BRIDGES	C.Y.	308.00	308.00
50307	PRESTRESSED GIRDER, I TYPE, 54-INCH	L.F.	364.00	364.00
50504	HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	38,240.00	38,240.00
50625	BEARING PADS, ELASTOMERIC	S.F.	12.00	12.00
51121	STEEL PILING, DELIVERED AND DRIVEN, HP 10-INCH 42 POUND	L.F.	420.00	420.00
51340	TUBULAR RAILING, TYPE F, STRUCTURE B-44-102	L.S.	1.00	1.00
60602	HEAVY RIPRAP	C.Y.	170.00	170.00
61910	MOBILIZATION	L.S.	1.00	1.00
64201	FIELD OFFICE, TYPE A	L.S.	1.00	1.00
64301	TRAFFIC CONTROL	L.S.	1.00	1.00

FEDERAL PROJECT NUMBER	SHEET NO.
6004 - 1 - 71	5

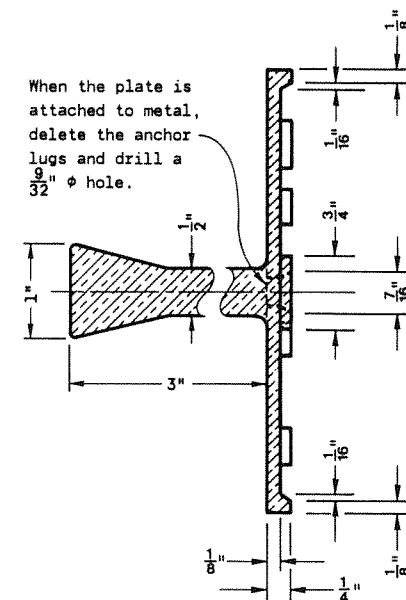




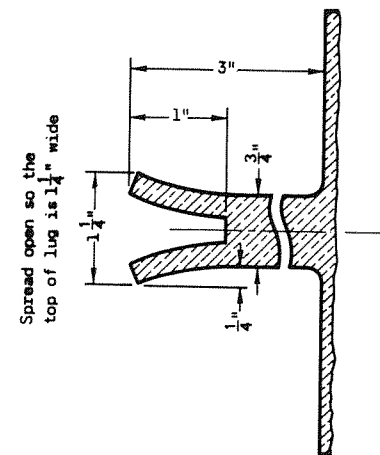
TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING AND LOADING DESIGNATION
MULTI-UNIT STRUCTURES



SECTION A-A



ALTERNATE LUG

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

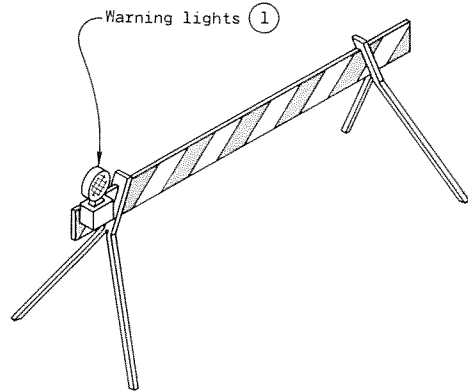
APPROVED
9-27-79
DATE

[Signature]
CHIEF DESIGN ENGINEER

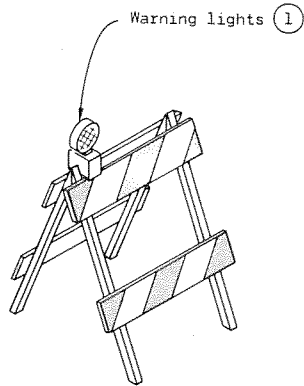
FHWA

Table with 4 columns: BARRICADE TYPE, I, II, III. Rows include Height, Rail Width, Rail Length, Stripe Width, and Stripe Colors.

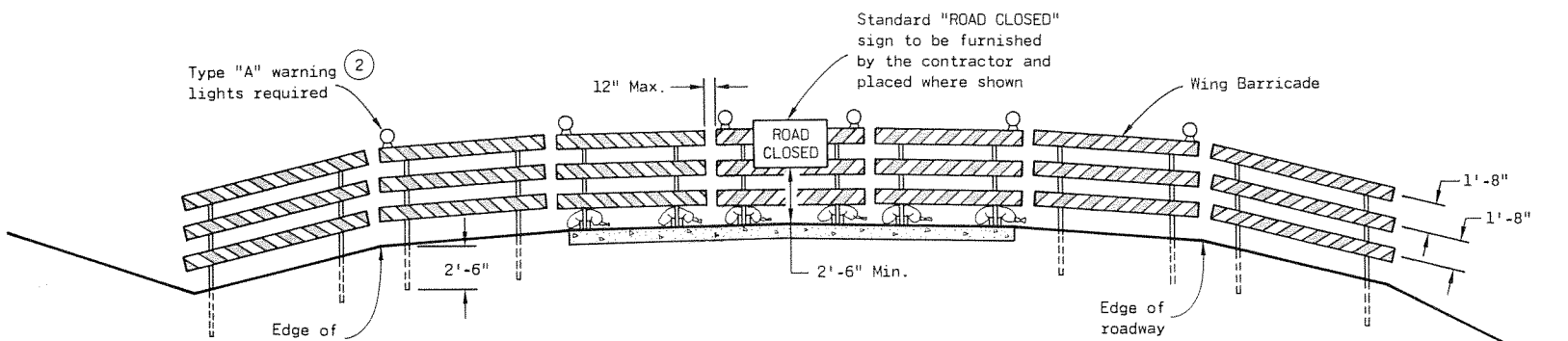
* Nominal dimensions when barricade is constructed of lumber.
** Shall be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE
CONSTRUCTION BARRICADES



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 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.

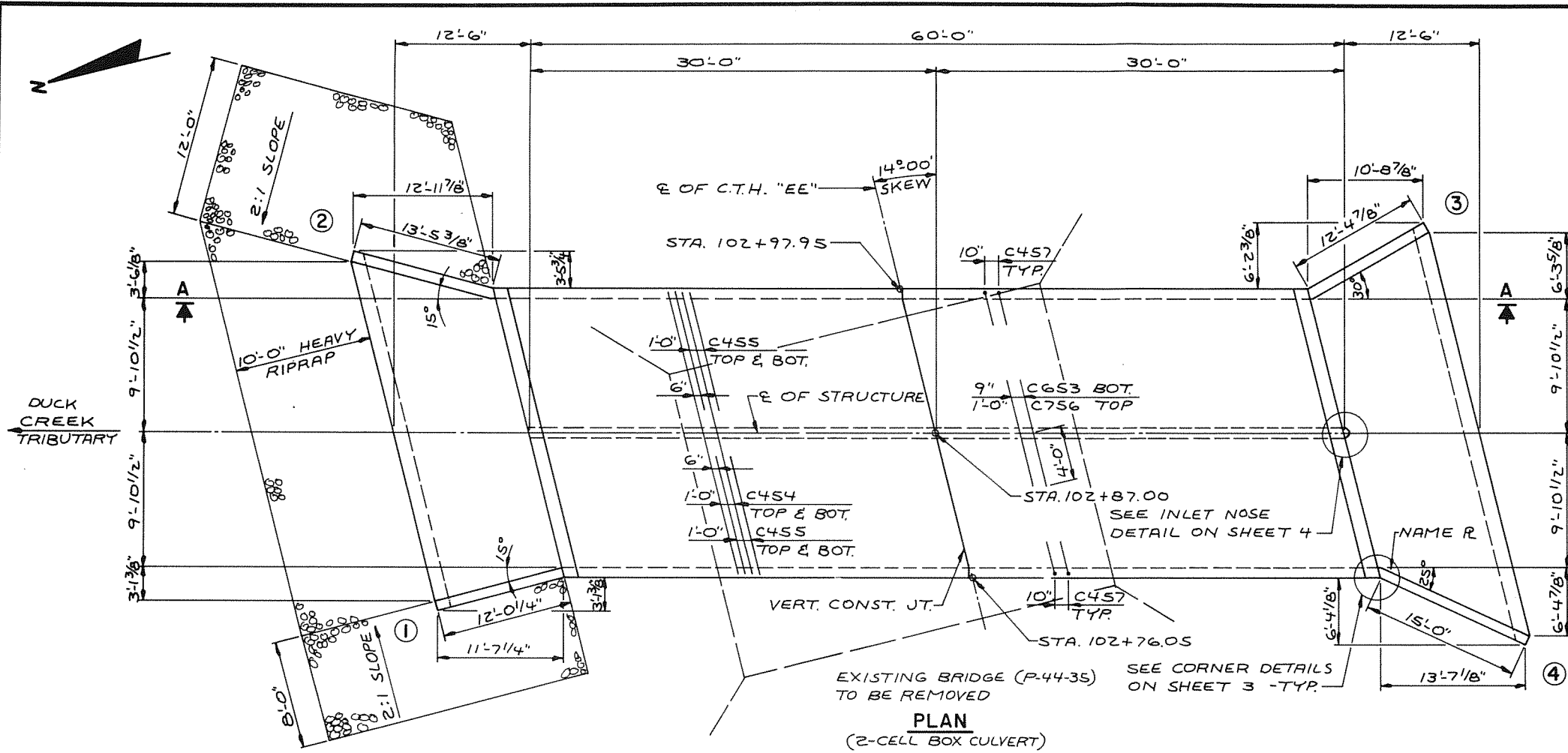
CONSTRUCTION BARRICADES & STANDARD SIGNS
State of Wisconsin Department of Transportation
APPROVED 9-14-81
DATE 9-14-81
CHIEF DESIGN ENGINEER

GENERAL NOTES

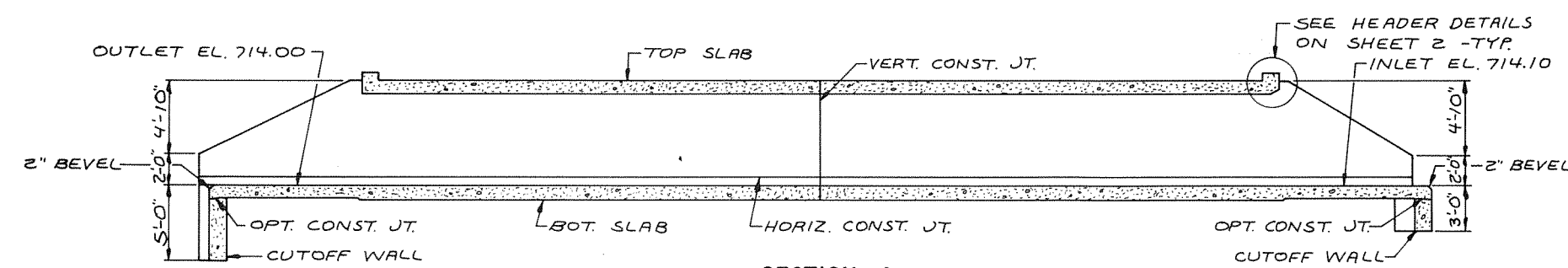
DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
 THE FIRST DIGIT OF A THREE DIGIT BAR NO. SIGNIFIES THE BAR SIZE.
 JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.
 THE EXISTING GROUND LINE WAS USED AS THE UPPER LIMITS OF EXCAVATION.
 ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH GRANULAR BACKFILL TO THE ORIGINAL GROUND LINE WITHIN THE LENGTH OF THE BOX.
 THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

DESIGN DATA

LIVE LOAD: HS-20 MODIFIED
 EARTH LOAD: 6'-0"
 ALLOWABLE DESIGN STRESSES:
 CONCRETE MASONRY $f'_c = 3,500$ p.s.i.
 HIGH-STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) $f_y = 60,000$ p.s.i.
 HYDRAULIC DATA:
 DRAINAGE AREA = 11.3 SQ. MI.
 WATERWAY AREA = 114 SQ. FT.
 $V = 10.3$ f.p.s.
 $Q_{100} = 1000$ c.f.s.
 HIGH WATER₁₀₀ EL. 721.27
 TRAFFIC DATA:
 A.D.T. = 800 (1981)
 A.D.T. = 1150 (2002)
 R.D.S. = 55



PLAN
(2-CELL BOX CULVERT)



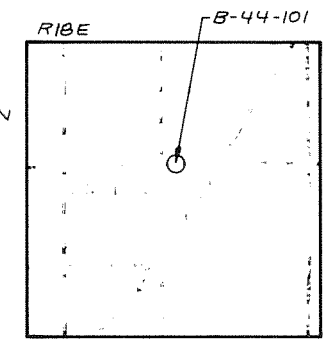
SECTION A

TOTAL ESTIMATED QUANTITIES

BID ITEMS		AMOUNT
REMOVING OLD BRIDGE STA. 102+80	1 L.S.	
EXCAVATION FOR STRUCTURES, BRIDGES B-44-101	1 L.S.	
CONCRETE MASONRY, BRIDGES	149 C.Y.	
HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	12,180 L.B.	
HEAVY RIPRAP	60 C.Y.	
NON-BID ITEMS		
FILLER	3/4" SIZE	
POLYVINYL CHLORIDE WATERSTOP	25 L.F.	

LIST OF DRAWINGS

1. GENERAL PLAN	X 68538
2. BOX AND WING DETAILS	X 68539
3. APRON DETAILS	X 68540
4. BILL OF BARS AND DETAILS	X 68541
5. SUBSURFACE EXPLORATION	X 68542



LAYOUT

No.	Date	Revision	By

PLANS PREPARED BY
OWEN AYRES & ASSOCIATES
 ARCHITECTS / ENGINEERS
 EAU CLAIRE, WISCONSIN

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-101
 C.T.H. "EE" OVER DUCK CR. TRIBUTARY

County	OUTAGAMIE	Town, City, Village	ONEIDA
Design Spec.	A.A.S.H.T.O. '81	Load	HS-20 (MOD.)
Designed By	K.B.H.	Design Checked	D.H.P.
Drawn By	G.L.D.	Plans Checked	K.B.H.

Approved: *Stanley W. Woods* 11-17-82
 Chief Bridge Engineer Date

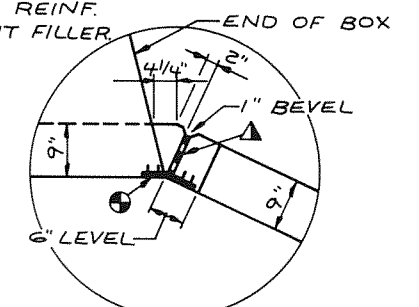
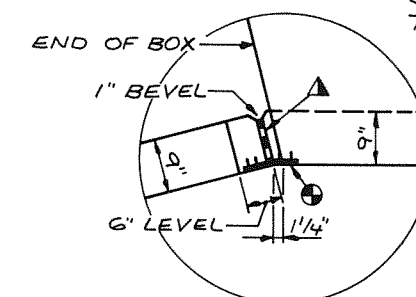
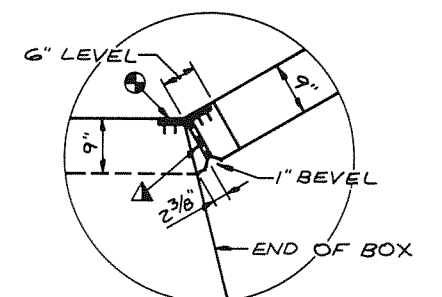
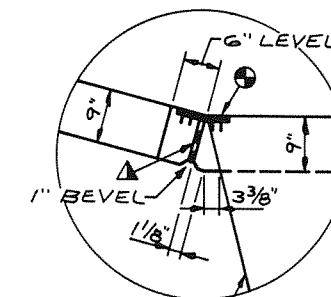
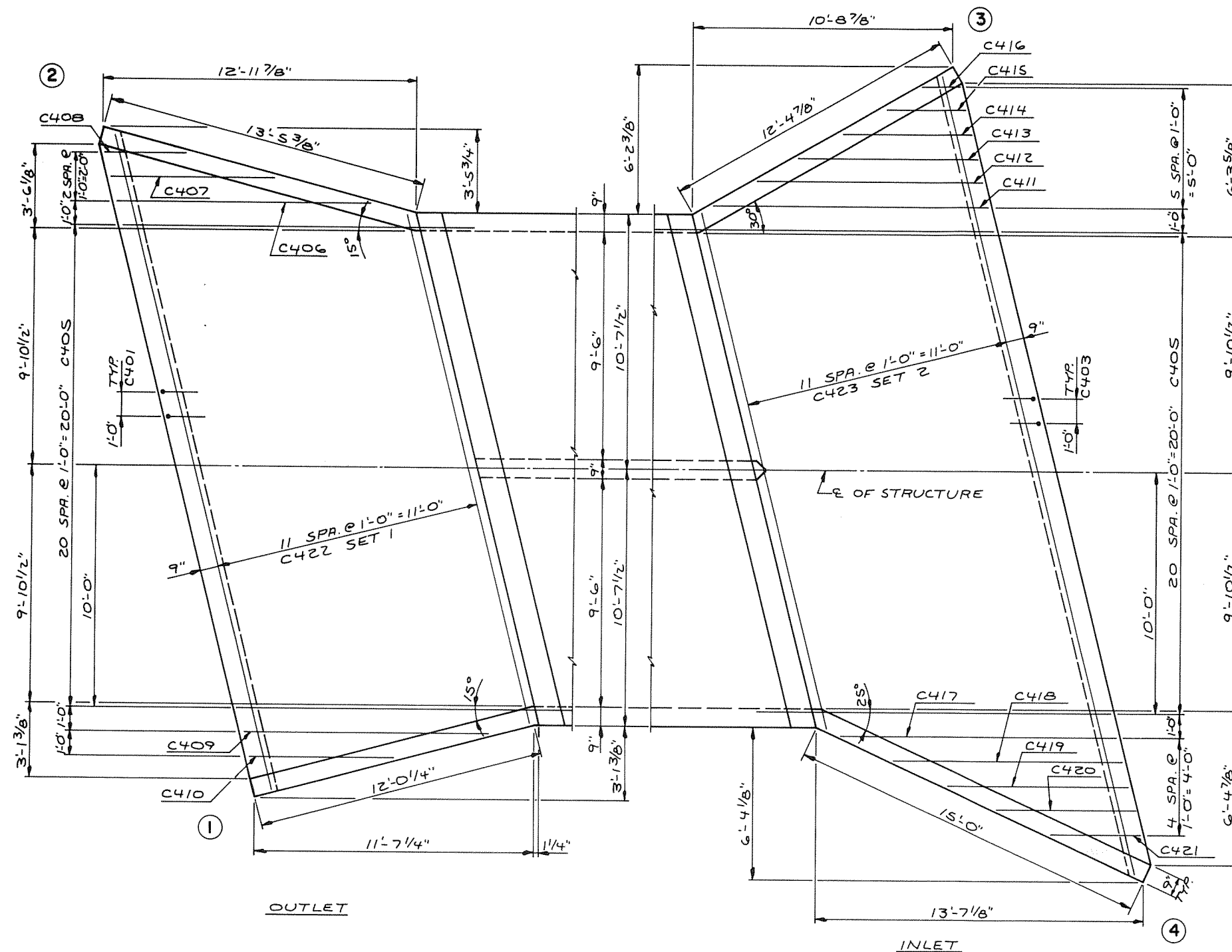
GENERAL PLAN

SHEET 1 OF 5

X68538

6004-1-71

8.2



NOTE: DO NOT RUN ANY
BAR STEEL REINF.
THRU JOINT FILLER.

CORNER DETAILS

- ⊕ POLYVINYL CHLORIDE WATERSTOP - EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE.)
- ▲ 3/4" FILLER TO EXTEND FROM HORIZ. CONST. JT. TO TOP OF WING.

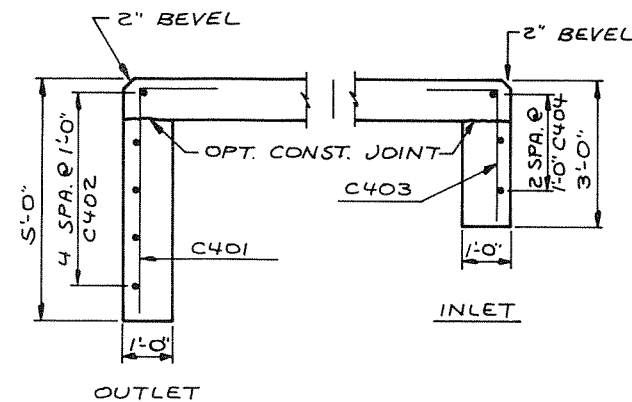
- ▲ 3/4" FILLER TO EXTEND FROM HORIZ. CONST.
JT. TO TOP OF WING.

No.	Date	Revision	By
 OWEN AYRES & ASSOCIATES CONSULTING ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-44-101			
Const Spec.	1981	Drawn By	G.L.D.
		Plans Checked	KAB
APRON DETAILS		SHEET 3 OF 5	
		X 68540	

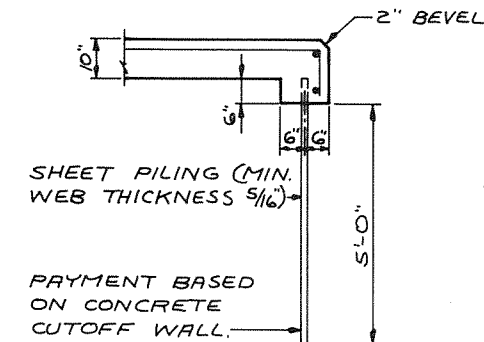
BILL OF BARS

BAR NO.	NO. REQD.	LENGTH	BENT	CUT DIAG.	LOCATION
C401	28	6-1	X		CUTOFF WALL-OUTLET
C402	5	27-1			" " " "
C403	34	4-1	X		" " INLET
C404	3	33-5			" " " "
C405	42	14-7			APRON-OUTLET & INLET
C406	1	10-9			" " " "
C407	1	7-3			" " " "
C408	1	3-9			" " " "
C409	1	10-7			" " " "
C410	1	6-7			" " " "
C411	1	11-4			" " INLET
C412	1	9-4			" " " "
C413	1	7-4			" " " "
C414	1	5-4			" " " "
C415	1	3-4			" " " "
C416	1	1-4			" " " "
C417	1	11-4			" " " "
C418	1	9-5			" " " "
C419	1	7-6			" " " "
C420	1	5-7			" " " "
C421	1	3-8			" " " "
C422	6	49-10	X		" " OUTLET SET 1
C423	6	56-4	X		" " INLET " 2
C424	7	18-4	X		WING 1-VERT. " 3
C425	7	18-4	X		" 2 " " 4
C426	7	18-4	X		" 3 " " 5
C427	8	18-4	X		" 4 " " 6
C428	2	13-10			" 1-HORIZ.
C429	1	11-7			" 1 " "
C430	1	10-4			" 1 " "
C431	1	6-8			" 1 " "
C432	1	3-0			" 1 " "
C433	2	15-3			" 2 " "
C434	1	13-0			" 2 " "
C435	1	11-8			" 2 " "
C436	1	7-6			" 2 " "
C437	1	3-4			" 2 " "
C438	2	14-3			" 3 " "
C439	1	12-0			" 3 " "
C440	1	10-8			" 3 " "
C441	1	6-8			" 3 " "
C442	1	2-8			" 3 " "
C443	2	16-10			" 4 " "
C444	1	14-7			" 4 " "
C445	1	12-8			" 4 " "
C446	1	8-2			" 4 " "
C447	1	3-8			" 4 " "
C548	2	12-6			" 1-DIAG.
C549	2	13-10			" 2 " "
C550	2	12-11			" 3 " "
C551	2	15-4			" 4 " "
C452	128	29-8			BOX - LONG.
C653	80	8-0			" TRANS. BOT. SLAB
C454	120	21-6			" " TOP & BOT. SLAB
C455	240	6-9			" " " " " "
C756	60	8-0			" " " " SLAB
C457	288	6-8	X		" EXT. CORNERS
C458	62	2-3			" " WALLS DOWELS
C459	62	6-2			" " " VERT.
C460	144	3-2	X		" INT. " DOWELS
C461	144	7-1	X		" " " VERT.
C562	60	4-0			" VERT. CONST. JT.
C363	60	2-3	X		" HEADER
C464	4	21-6			" " " "

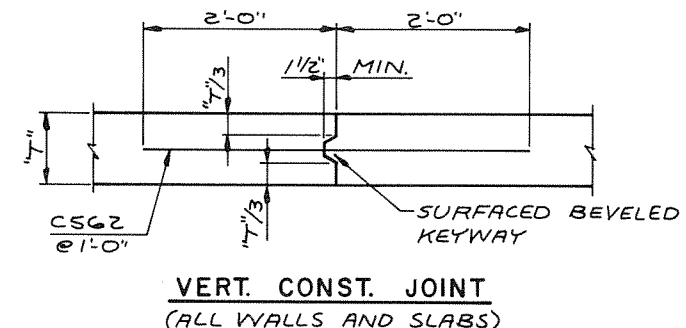
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



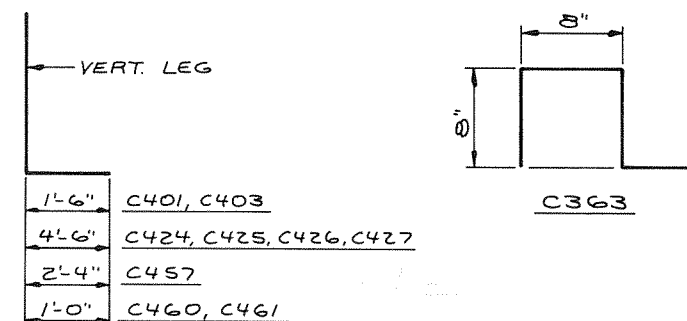
SECTION THRU CUTOFF WALL



ALTERNATE SECTION THRU CUTOFF WALL



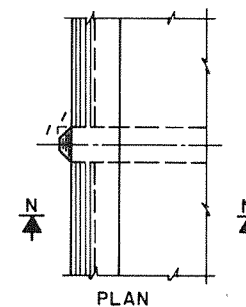
POLYVINYL CHLORIDE WATERSTOP DETAIL



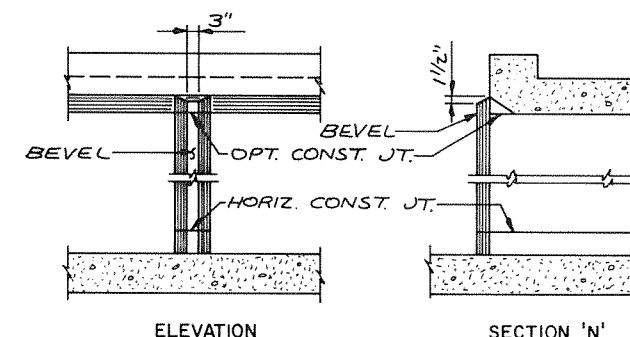
CUTTING DIAGRAM

H-NUMBER OF BARS BEFORE CUTTING.
 1-BUNDLE AND MARK CUT BARS WITH BAR AND SET NUMBER. BENT BARS USED IN A CUTTING DIAGRAM SHALL BE BENT AFTER CUTTING.
 2-MARK AND CUT ALL BARS ALONG THIS LINE. MAKE ALL CUTS NORMAL TO BAR AXIS.

BAR NO.	'C'	'D'	'E'	'F'	'G'	'H'	SETS
C422 SET 1	21-8	28-2	49-10	25-2 1/2	24-7 1/2	6	1
C423 SET 2	21-8	34-8	56-4	28-9	27-7	6	1
C424 SET 3	6-10	11-6	18-4	9-4	9-0	7	1
C425 SET 4	6-10	11-6	18-4	9-4	9-0	7	1
C426 SET 5	6-10	11-6	18-4	9-4	9-0	7	1
C427 SET 6	6-10	11-6	18-4	9-4	9-0	8	1



PLAN

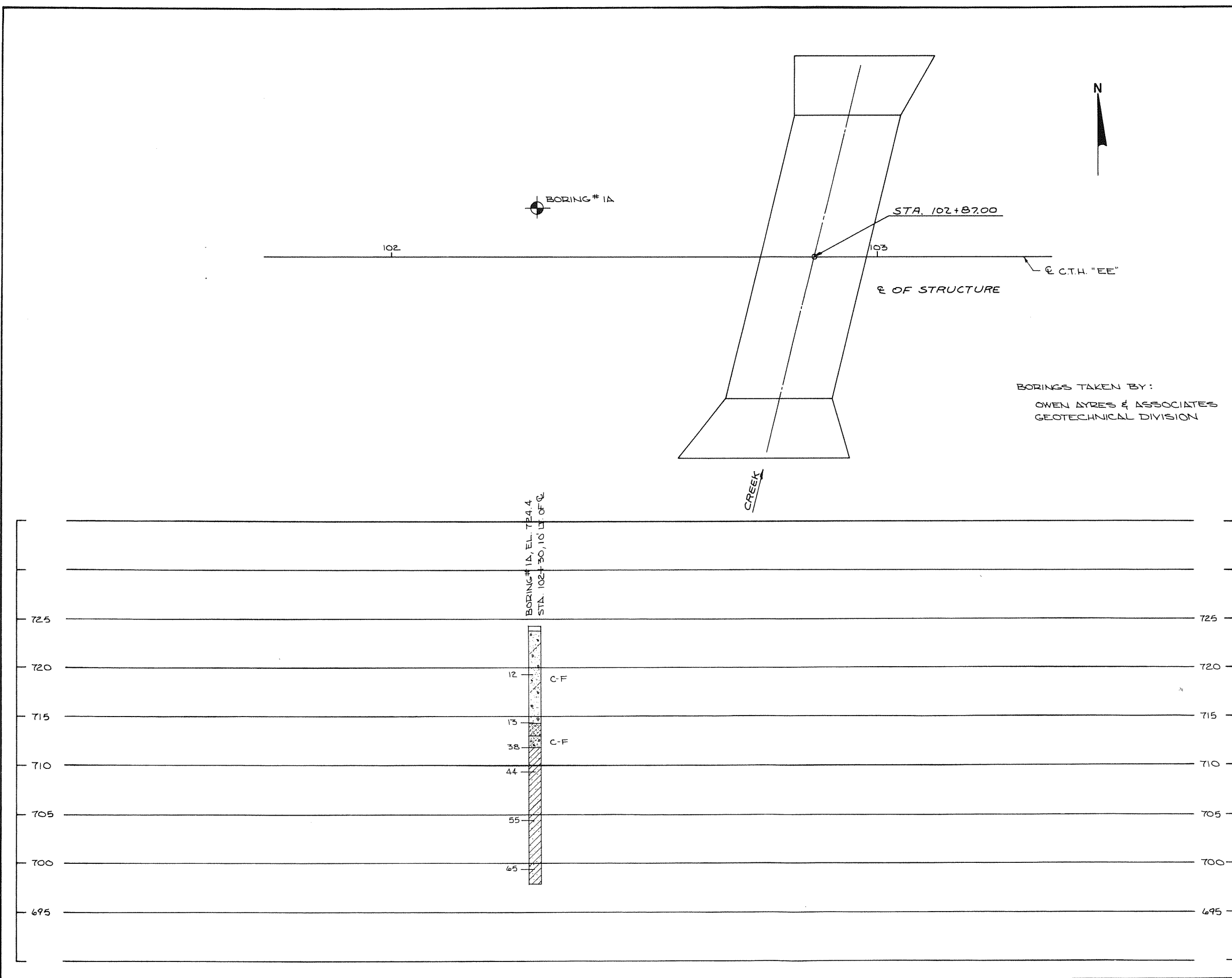


ELEVATION

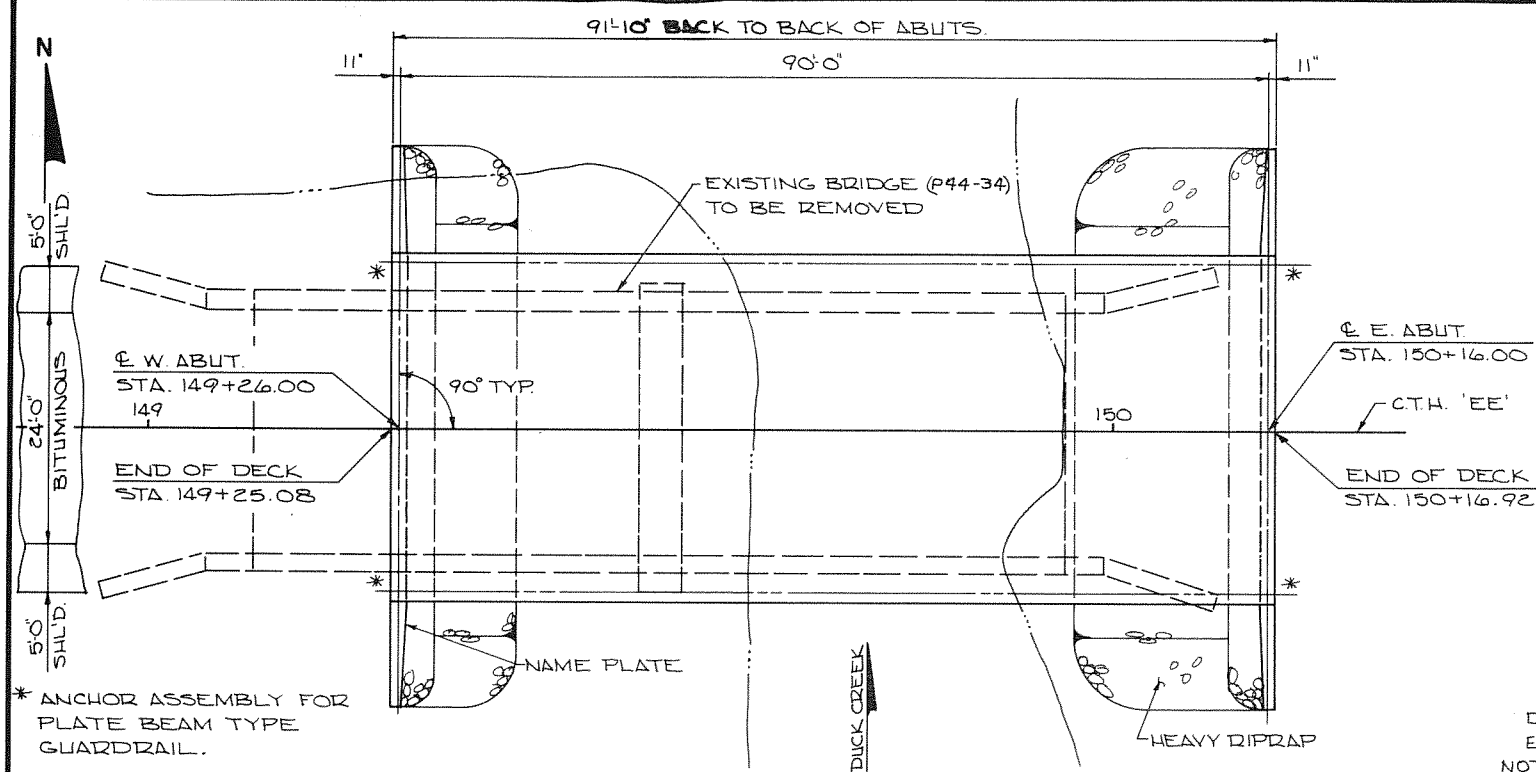
SECTION 'N'

INLET NOSE DETAIL

No.	Date	Revision	By
PLANS PREPARED BY OWEN AYRES & ASSOCIATES CONSULTING ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-44-101			
Const. Spec.	1981	Drawn By	GL.D.
		Plants Checked	KDH
BILL OF BARS AND DETAILS		SHEET 4 OF 5 X68541	

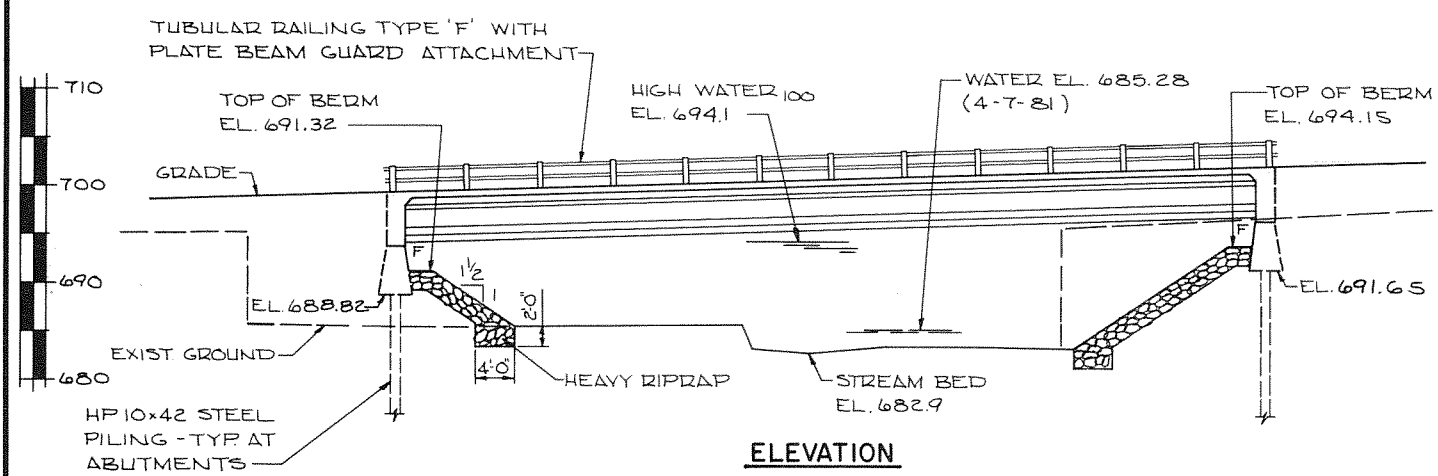


STATE PROJECT NUMBER		SHEET NO.	
6004-1-71		8.4	
ABBREVIATIONS			
F — Fine M — Medium C — Coarse Ws — Weathered So — Sound			
MATERIAL SYMBOLS			
Topsoil	Silt	Sandstone	
Sand	Peat	Limestone	
Gravel	Clay	Igneous Rock	
LEGEND OF PROBING			
95/6=95 Blows for 6" Penetration Probing taken with a 350# wt. Falling 18" on a 2" O. D. Point.			
LEGEND OF BORING			
Unconfined Strength — 7.7 Blows Per Ft. Using 140# Wt. Falling 30" Wash Sample Shelby Tube — S. T. 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-44-101			
Const. Spec.	1981	Drawn By D.V.H.	Plans Checked KDH
SUBSURFACE EXPLORATION			SHEET 5 OF 5
			X68542



PLAN

(1 SPAN 54" PRESTRESSED GIRDER)



ELEVATION

TOTAL ESTIMATED QUANTITIES

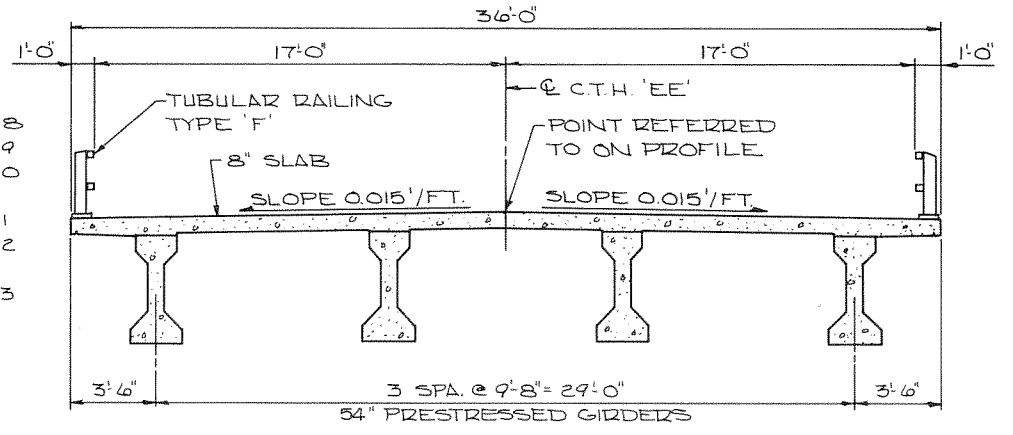
BID ITEMS		UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
REMOVING OLD BRIDGE STA. 149+70		L.S.				1
EXCAVATION FOR STRUCTURES, BRIDGES		L.S.				1
PRESTRESSED GIRDER, I TYPE, 54 INCH		L.F.			364	364
HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES		LB.	1,950	1,950	22,160	26,060
BEARING PAD, ELASTOMERIC		S.F.			12	12
STEEL PILING, DELIVERED AND DRIVEN, HP 10 INCH x 42 POUND		L.F.	210	210		420
TUBULAR RAILING, TYPE "F" STRUCTURE B-44 102		L.S.				1
HEAVY RIPRAP		C.Y.	40	70		110
CONCRETE MASONRY, BRIDGES		C.Y.	26.2	26.2	106.6	159
NON-BID ITEMS						
FILLER	SIZE					1 1/2 x 3/4
POLYVINYL CHLORIDE WATERSTOP	L.F.		47	47		94

LIST OF DRAWINGS

1. GENERAL PLAN X68928
2. SUBSURFACE EXPLORATION X68929
3. ABUTMENTS X68930
4. 54" PRESTRESSED GIRDER DETAILS X68931
5. SUPERSTRUCTURE X68932
6. TUBULAR RAILING TYPE "F" X68933

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP TO THE EXTENT SHOWN ON THIS SHEET AND IN THE ABUTMENT DETAILS.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
THE FIRST DIGIT OF A THREE DIGIT BAR NO. SIGNIFIES THE BAR SIZE.
FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION: M153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION: M213.
PILE SPLICES, IF USED, SHALL BE MADE BY A CERTIFIED WELDER.



CROSS SECTION THRU ROADWAY

DESIGN DATA

LIVE LOAD: HS-20 (STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20"/S.F.)

RATINGS: INVENTORY = HS-24 OPERATING = HS-44

ALLOWABLE DESIGN STRESSES:

CONCRETE MASONRY { SLAB $f'_c = 4,000$ p.s.i.
ALL OTHER $f'_c = 3,500$ p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) $f_y = 60,000$ p.s.i.
PRESTRESSED GIRDER
CONCRETE MASONRY $f'_c = 6,000$ p.s.i.
STRANDS - $1/2"$ ϕ WITH ULTIMATE TENSILE STRENGTH OF 270,000 p.s.i.

HYDRAULIC DATA:

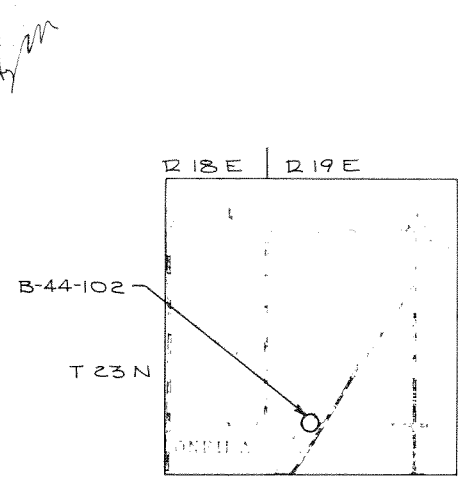
DRAINAGE AREA = 53 SQ. MI.
WATERWAY AREA = 601 SQ. FT.
 $V = 4.6$ f.p.s.
 $Q_{100} = 2750$ c.f.s.
HIGH WATER $_{100}$ EL. 694.1 OVERTOPPING ROAD = N/A

FOUNDATION DATA:

PLACE ABUTMENTS ON HP 10x42 STEEL PILING. DRIVE TO 55 TONS/PILE MINIMUM BEARING VALUE. EST. LENGTH 35'-0".

TRAFFIC DATA:

A.D.T. = 800 (1981)



LAYOUT

No.	Date	Revision	By

PLANS PREPARED BY
OWEN AYRES & ASSOCIATES
ARCHITECTS / ENGINEERS
EAU CLAIRE, WISCONSIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

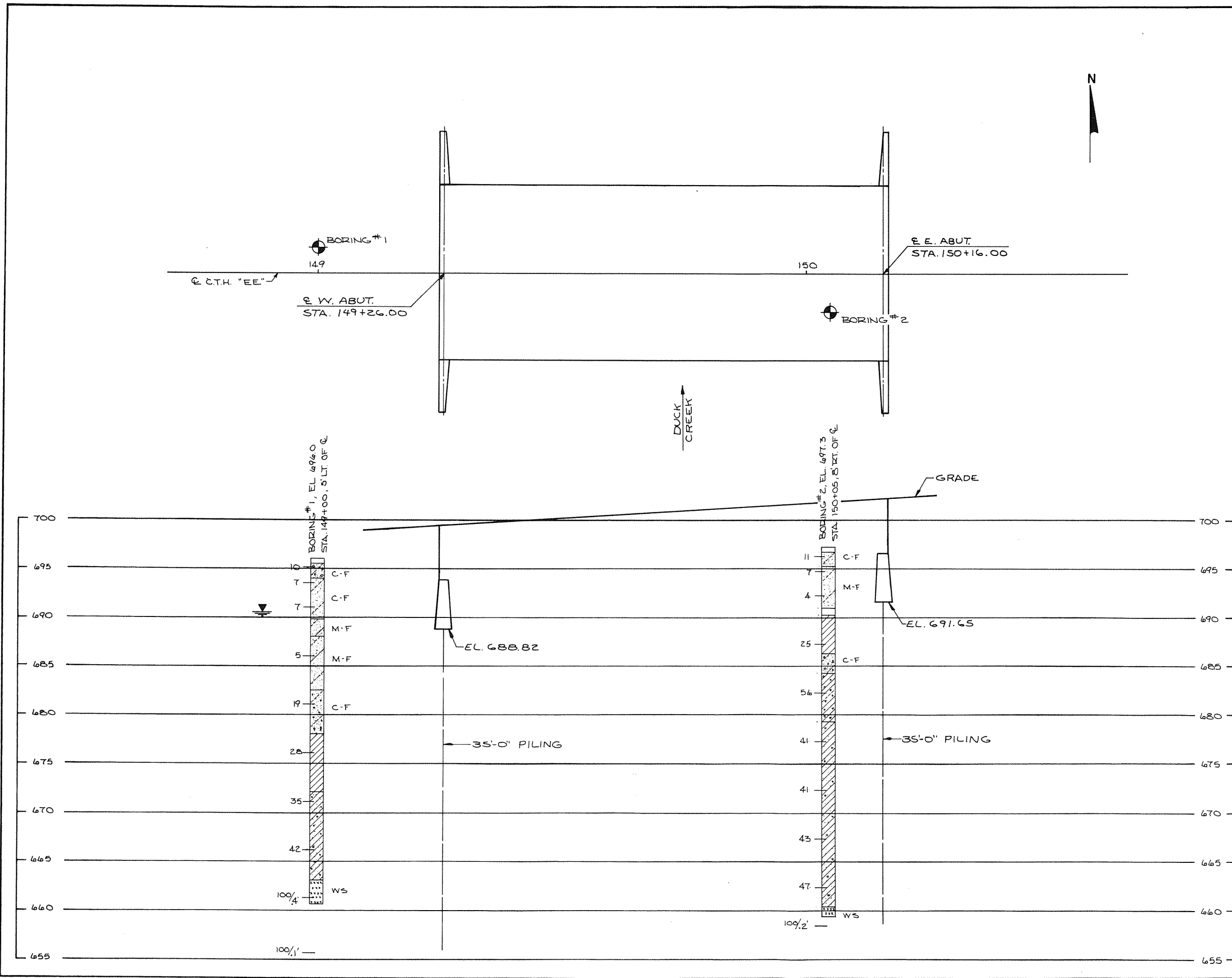
STRUCTURE B-44-102
C.T.H. 'EE' OVER DUCK CREEK

County	OUTAGAMIE	Town/City/Village	ONEIDA
Design Spec.	A.A.S.H.T.O. '81	Load	HS-20
Designed By	K.B.H.	Checked	D.H.P.
Drawn By	D.V.H.	Plans Checked	K.B.H.
Approved	Stanley W. Woods Chief Bridge Engineer		11-17-82 Date

GENERAL PLAN

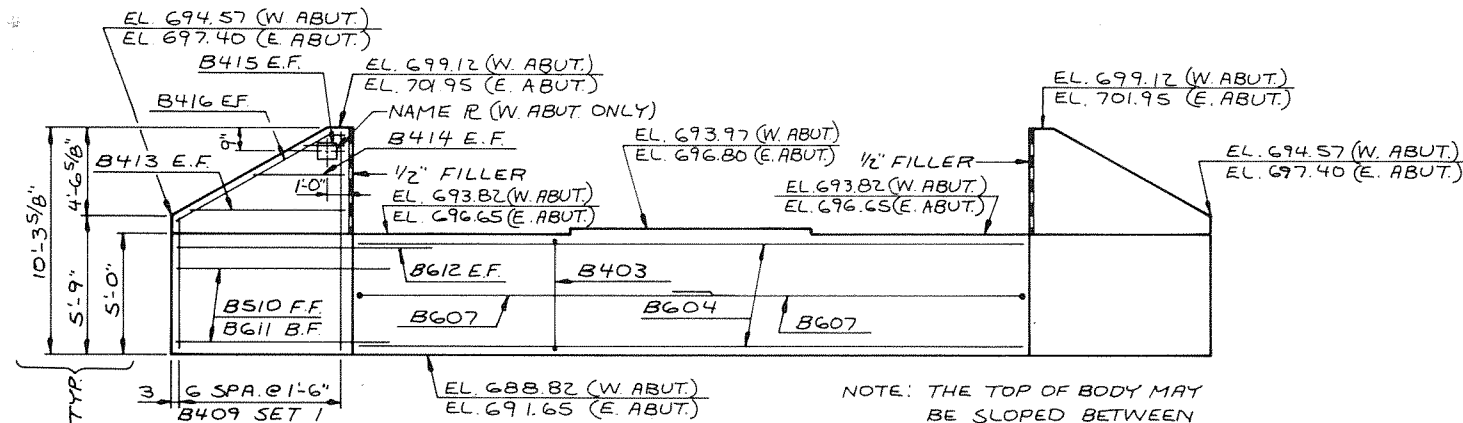
SHEET 1 OF 6

X68928



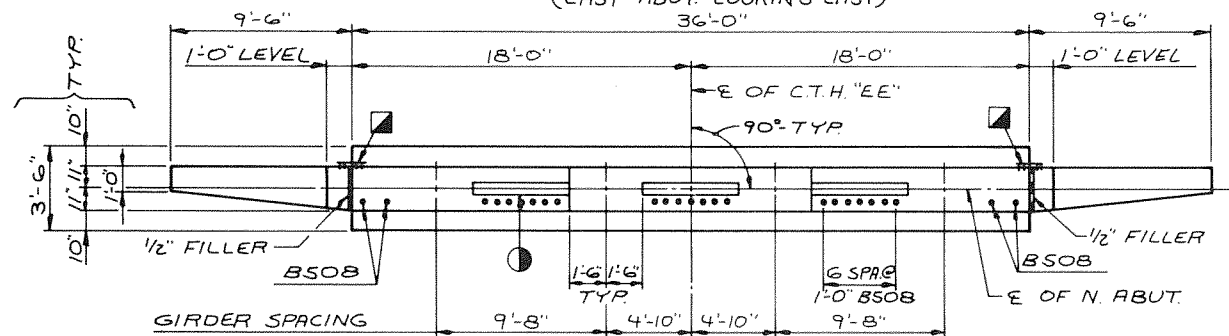
STATE PROJECT NUMBER		SHEET NO.	
6004-1-71		8.6	
ABBREVIATIONS F — Fine M — Medium C — Coarse Ws — Weathered So — Sound			
MATERIAL SYMBOLS			
Topsoil	Silt	Sandstone	
Sand	Peat	Limestone	
Gravel	Clay	Igneous Rock	
LEGEND OF PROBING			
95/6=95 Blows for 6" Penetration Probing taken with a 350# wt. Falling 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. T.		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-44-102			
Const. Spec. 1981	Drawn By D.V.H.	Plans Checked K.B.H.	
SUBSURFACE EXPLORATION			SHEET 2 OF 6
			X68929

NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

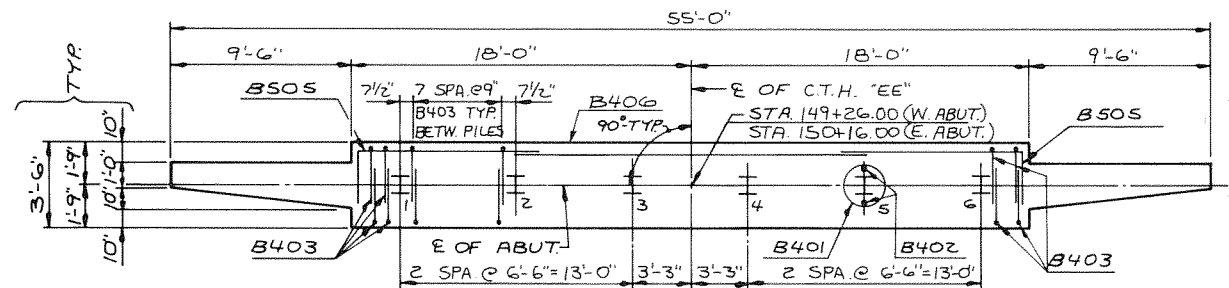


ELEVATION

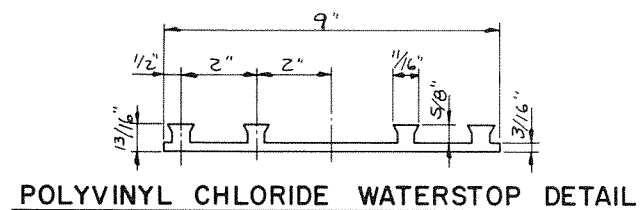
(WEST ABUT. LOOKING WEST)
(EAST ABUT. LOOKING EAST)



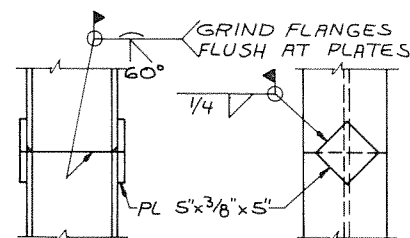
PLAN



PILE LAYOUT



POLYVINYL CHLORIDE WATERSTOP DETAIL



HP 10x42 SPLICE DETAIL

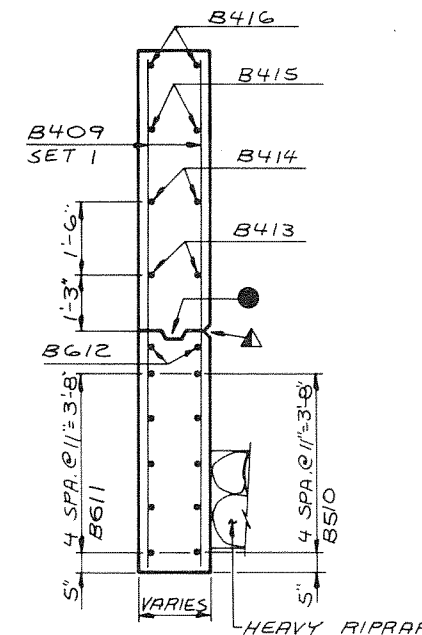
- KEYED CONST. JOINT FORMED BY A SURFACED BEVELED 2"x6".
- OPT. KEYED CONST. JT. FORMED BY A SURFACED BEVELED 2"x6".
- 3/4" 'V' GROOVE IN FRONT FACE OF WING WALL. NOT REQUIRED IF CONST. JOINT IS NOT USED.

B508 BARS MAY BE PLACED AFTER ABUT. IS POURED BUT BEFORE CONC. HAS SET. IMBED BAR 1'-0".

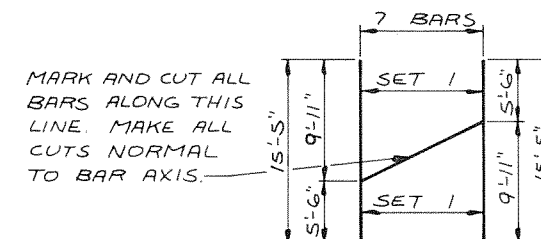
ALL HORIZ. BARS IN BODY ARE B604 UNLESS SHOWN OR NOTED OTHERWISE.

HP 10x42 STEEL PILING DRIVEN TO 55 TONS/PILE MINIMUM BEARING VALUE. EST. LENGTH 35'-0".

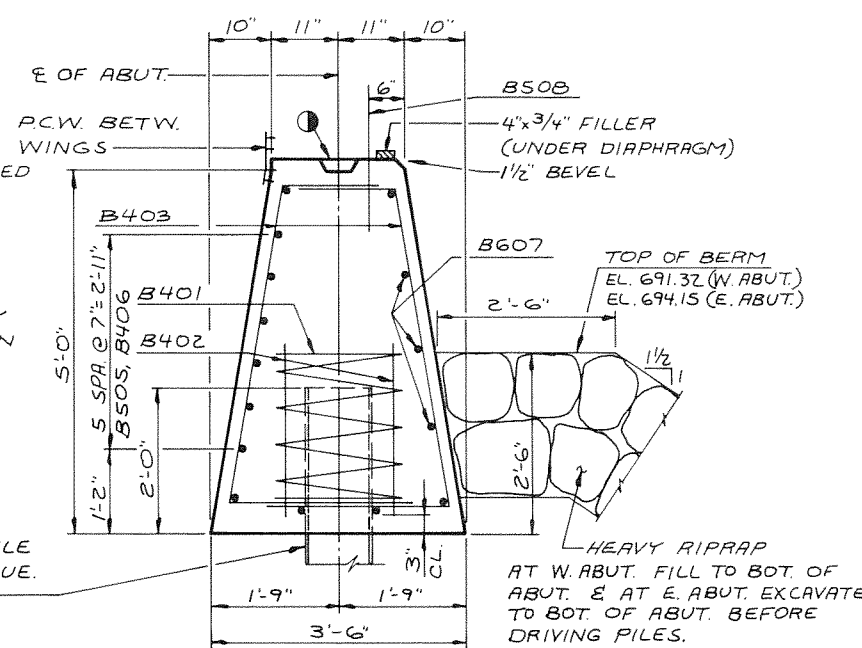
VERT. P.C.W. TO EXTEND FROM BRIDGE SEAT TO TOP OF WING. SPLICE AT JUNCTION WITH HORIZ. P.C.W. (1/8"x12" BUTYL RUBBER SHEETING BONDED WITH APPROVED ADHESIVE MAY BE SUBSTITUTED FOR VERT. P.C.W. LAP 3" OVER HORIZ. P.C.W.)



SECTION THRU WING



CUTTING DIAGRAM



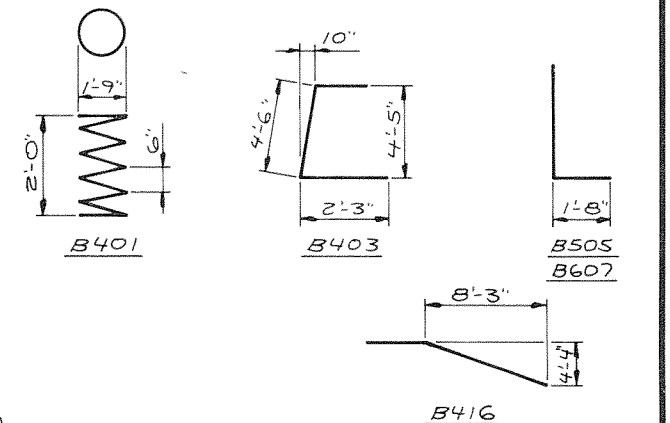
SECTION THRU BODY

STATE PROJECT NUMBER	SHEET NO.
6004-1-71	8.7

BILL OF BARS

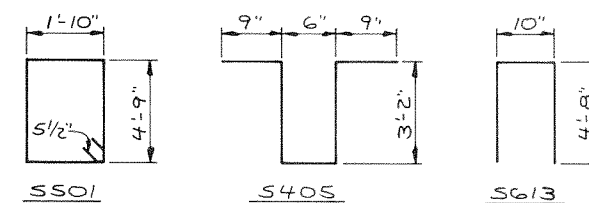
BAR NO.	NO. REQ'D	LENGTH	BENT CUT/DIAG	1,950#	LOCATION
B401	6	28-0	X		BODY @ PILES
B402	12	2-3			" "
B403	88	8-1	X		" VERT.
B604	6	35-8			" HORIZ.
B505	12	11-1	X		" @ WINGS
B406	6	18-6			" "
B607	6	20-10	X		" "
B508	25	2-0			" DOWELS
B409	14	15-5	X		WINGS - VERT. E.F.
B510	10	10-10			" HORIZ. F.F.
B611	10	11-1			" B.F.
B612	4	12-7			" E.F.
B413	4	8-2			" E.F.
B414	4	5-2			" E.F.
B415	4	2-2			" E.F.
B416	4	10-1	X		DIAG. E.F.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.
E.F. DENOTES EACH FACE.

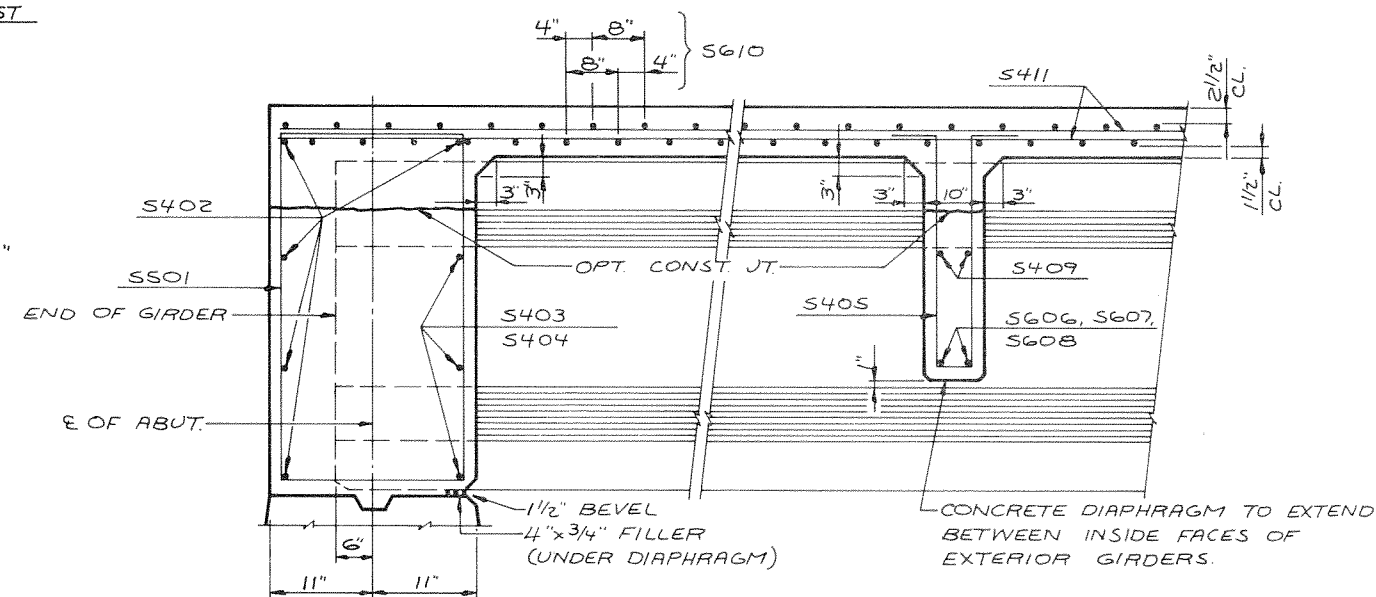
No.	Date	Revision	By
PLANS PREPARED BY OWEN AYRES & ASSOCIATES CONSULTING ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-44-102			
Const. Spec.	1981	Drawn By	GLD.
		Plans Checked	KRH
ABUTMENTS		SHEET 3 OF 6	
		X68930	



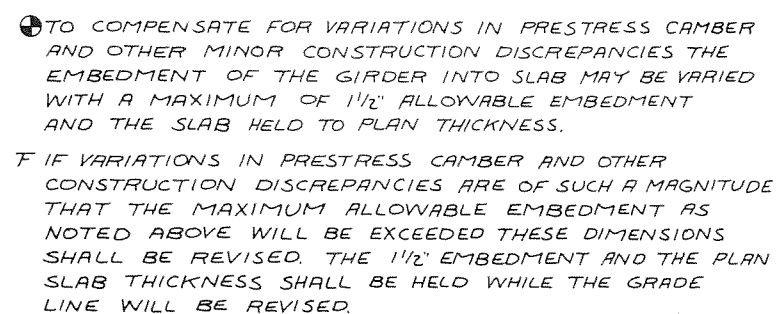
CROSS SECTION THRU ROADWAY

[illegible]

* PLAIN BAR THREAD ONE END 3".
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

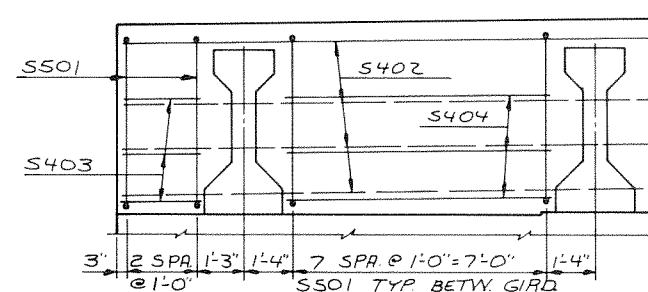


PART LONGITUDINAL SECTION



 DENOTES STRESS RELIEVED GIRDER.
 DENOTES LOW RELAXATION GIRDER.

SLAB FORMING DIAGRAM



SECTION AT ABUTMENT

FOR BEARING PLAN SEE
SHEET 6.

No.	Date	Revision	By
 OWEN AYRES & ASSOCIATES CONSULTING ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-44-102			
Const. Spec.	1981	Drawn By	G.L.D.
		Plans Checked	KBH
SUPERSTRUCTURE		SHEET 5 OF 6	
		X68932	

