



# ESTIMATE OF QUANTITIES

CONTRACT NO. 1 (4636 2 72)  
STRUCTURE B-70-52

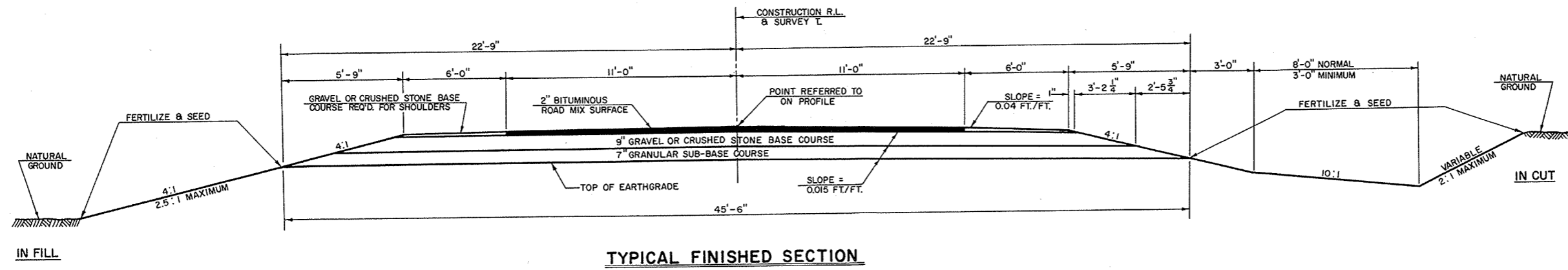
B.P.R. REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S 1256 (4)	2	8

4636-2-72

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE WISCONSIN DIVISION OF HIGHWAYS, EDITION OF 1969, SUBMITTED FOR APPROVAL OCTOBER 23, 1968, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED OCTOBER 29, 1963, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT	STATION TO STATION	NET LENGTH OF CENTER LINE	REMOVING OLD BRIDGE STA. 226+60.45	EXCAVATION FOR STRUCTURES BRIDGES	CONCRETE MASONRY BRIDGES	BAR STEEL REINFORCEMENT BRIDGES	HEAVY RIP-RAP
			ITEM NO.	UNIT	LIN. FT.	LUMP SUM	CU. YD.
1	226+44.29 - 226+76.61	32.32	1	300	160.3	23,240	100
<b>TOTALS</b>		32.32	1	300	160.3	23,240	100

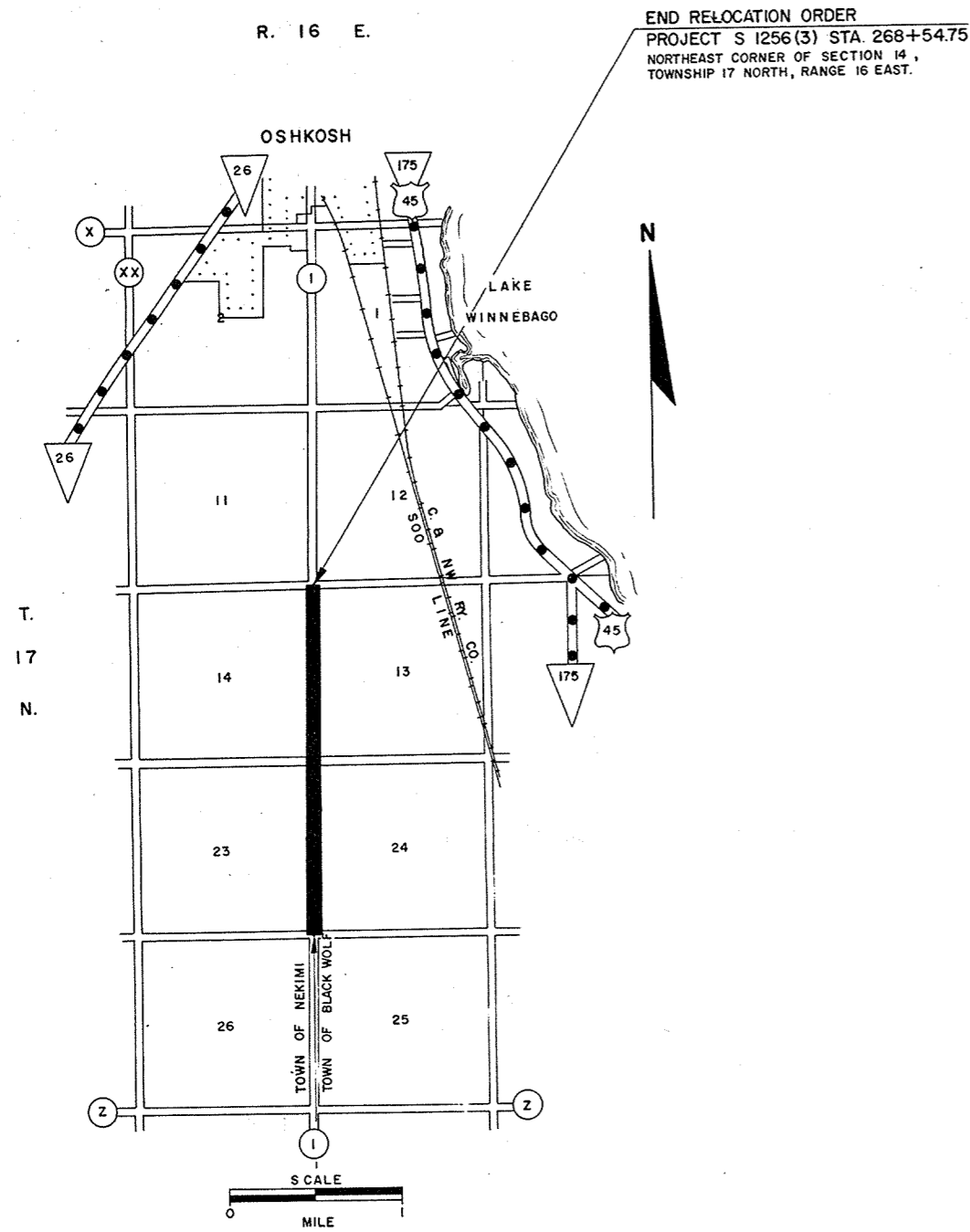
105 4A19



STANDARD DETAIL DRAWINGS  
CONSTRUCTION BARRICADE 7-4.1.5

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
70.6	1256.0	-	11.3	4 WIS.	3	8
CONST. PROJECT S 1256 (4)						

4636-2-72



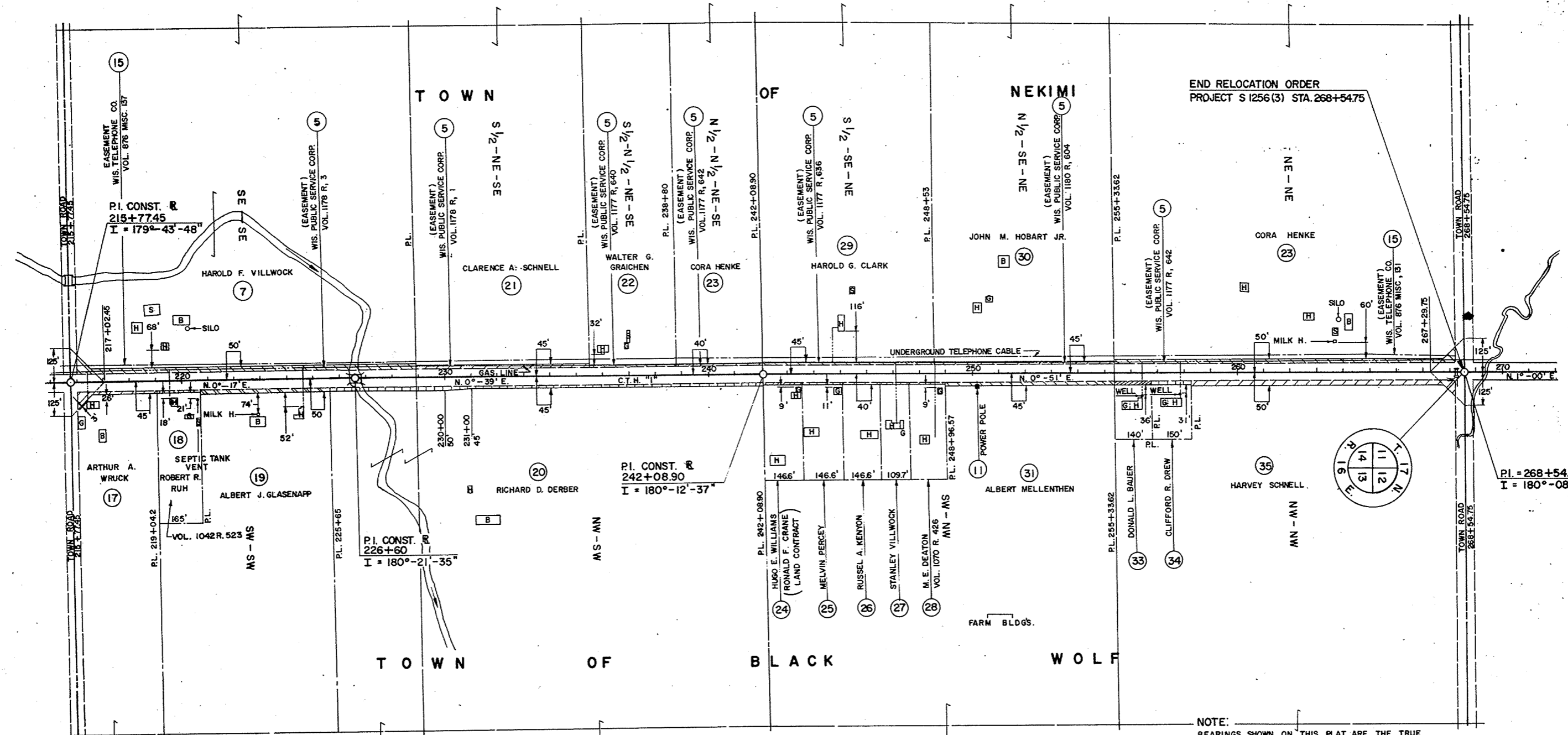
SCHEDULE OF LANDS AND INTERESTS REQUIRED				
PARCEL NUMBER	SHEET NUMBER	OWNER	INTERESTS REQUIRED	ACRES
1	4.1	ARTHUR GALOW	HIGHWAY EASEMENT	0.24
2	4.1	DARWIN E. KIENERT	"	0.13
3	4.1	HARVEY HARTMAN	"	0.01
4	4.1	LAWRENCE C. BASLER	"	0.11
5	4.1 & 4.2	WIS. PUBLIC SERVICE CORP.	RELEASE OF RIGHTS	-
6	4.1	SUSAN BRENNARD	HIGHWAY EASEMENT	0.21
7	4.1 & 4.2	HAROLD F. VILLWOCK	"	0.64
8	4.1	ARTHUR GALOW	"	0.11
9	4.1	GILBERT H. POTRATZ	FEE	0.15
10	4.1	LEO LUEBKE	HIGHWAY EASEMENT	0.16
11	4.1 & 4.2	WIS. PUBLIC SERVICE CORP.	RELEASE OF RIGHTS	-
12	4.1	LILLIAN L. WILLIAMS	HIGHWAY EASEMENT & L.H.E.	0.18
13	4.1	IRENE VILLWOCK	HIGHWAY EASEMENT	0.23
14	4.1	KERMIT HENCKE	"	0.47
15	4.1 & 4.2	WIS. TELEPHONE CO.	RELEASE OF RIGHTS	-
16	4.1	BERNARD C. RUEDINGER	HIGHWAY EASEMENT	0.21
17	4.2	ARTHUR A. WRUCK	"	0.12
18	4.2	ROBERT R. RUH	"	0.05
19	4.2	ALBERT J. GLASENAPP	"	0.19
20	4.2	RICHARD D. DERBER	"	0.51
21	4.2	CLARENCE A. SCHNELL	"	0.18
22	4.2	WALTER G. GRAICHEN	"	0.05
23	4.2	CORA HENKE	"	0.56
24	4.2	HUGO E. WILLIAMS	"	0.02
25	4.2	MELVIN PERCEY	"	0.02
26	4.2	RUSSEL A. KENYON	"	0.02
27	4.2	STANLEY VILLWOCK	"	0.02
28	4.2	M. E. DEATON	"	0.02
29	4.2	HAROLD G. CLARK	"	0.18
30	4.2	JOHN M. HOBART JR.	"	0.19
31	4.2	ALBERT MELLENTHEN	"	0.18
32	4.1	DAVID L. SENNHOLZ	"	0.06
33	4.2	DONALD L. BAUER	"	0.04
34	4.2	CLIFFORD R. DREW	"	0.05
35	4.2	HARVEY SCHNELL	"	0.41

NOTE:  
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

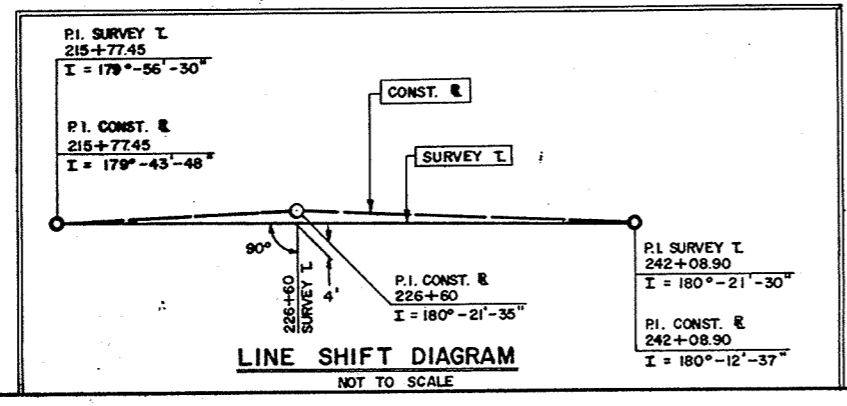
REVISION DATE	STATE HIGHWAY COMMISSION OF WISCONSIN
5-15-68	PLAT OF RIGHT OF WAY REQUIRED
	PROJECT S 1256 (3)
	SOUTH COUNTY LINE — OSHKOSH
	(BLACK WOLF POINT ROAD TO FISK AVENUE)
	C.T.H. "1" WINNEBAGO COUNTY
	SCALE
	LENGTH 2.002 MILES 0 200 FEET 400 DATED 4-10-68

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
70.6	1256.0	-	11.3	4 WIS.	3.1	8
CONST. PROJECT		S 1256 (4)				

4636-2-72

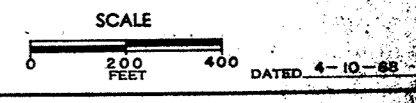


NOTE:  
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.



REVISION DATE	N.C.
5-15-68	

STATE HIGHWAY COMMISSION OF WISCONSIN  
**PLAT OF RIGHT OF WAY REQUIRED**  
**PROJECT S 1256 (3)**

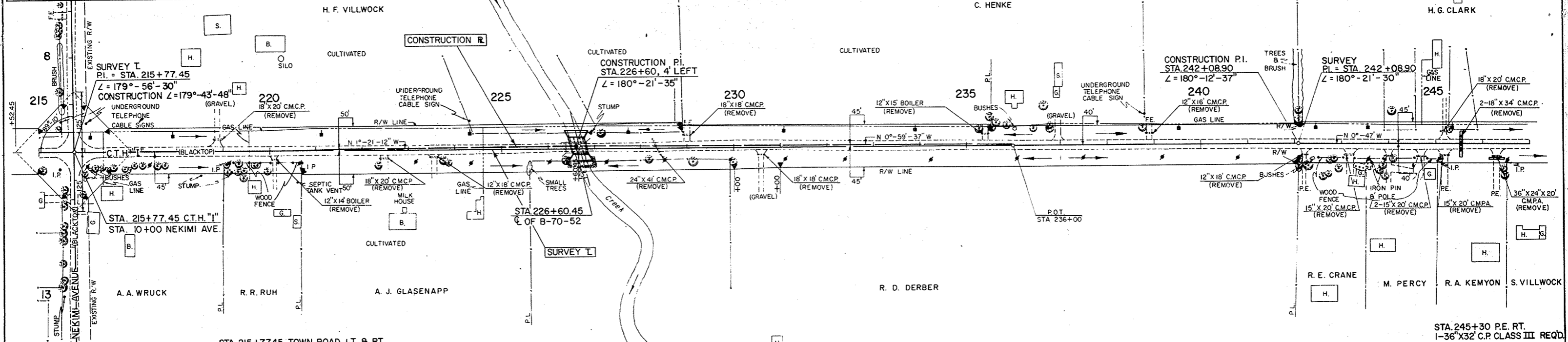


**BENCH MARKS**

NO.	STATION	DESCRIPTION	ELEV.
25	219+03	SPIKE IN 28" ELM	75' RT. 797.73
26	225+63	SPIKE IN 24" ELM	70' RT. 795.78
26A	230+45	SPIKE IN 18" ASH	153' RT. 793.84
27	238+81	SPIKE IN 14" TRIPLE ELM	110' LT. 796.28
27A	243+82	SPIKE IN 12" OAK	57' RT. 793.45

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S1256(4)	4	8

4636-2-72

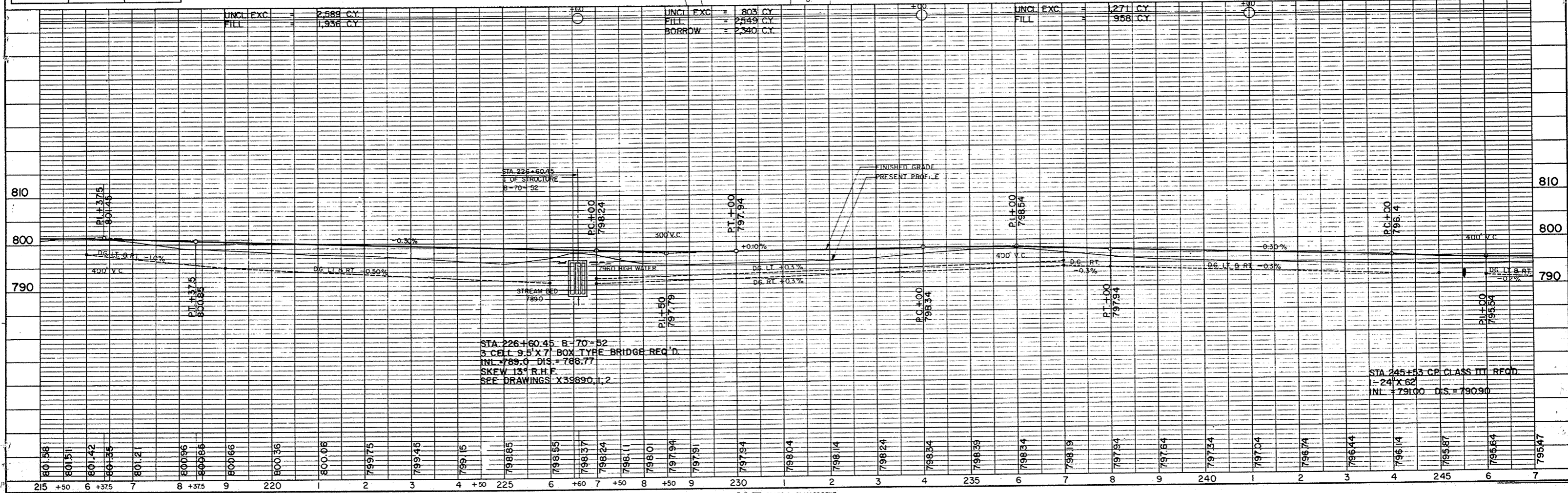


NET LENGTH OF CENTERLINE

STATION TO STATION	LIN. FT.	
215+00	245+00	3,000.0

STA. 215+77.45 TOWN ROAD LT. & RT. DESIGN TYPE "C" INTERSECTION REQ'D. SEE STANDARD DRAWING NO. 9-1.1.5

STA. 245+30 P.E. RT. 1-36" X 32' C.P. CLASS III REQ'D.



STA. 226+60.45 B-70-52  
3 CELL 9.5' X 7' BOX TYPE BRIDGE REQ'D.  
INL = 789.0 DIS. = 788.77  
SKEW 13° R.H.F.  
SEE DRAWINGS X39890, 1, 2

STA. 245+53 C.P. CLASS III REQ'D.  
1-24" X 62"  
INL = 791.00 D.S. = 790.90

**GENERAL NOTES**

The contractor shall construct, place and maintain barricades as shown on the drawing and as required by the Standard Specifications or applicable Special Provisions.

**CLASS I BARRICADE:**

Class I Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class I Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class I Barricades shall be used at points where the road is closed to traffic. Gates or movable sections of a barricade shall be provided when necessary, for access of equipment or other authorized vehicles. Wing Barricades are Class I Barricades erected on the shoulder on one or both sides of the pavement to give Traffic the perceptive effect of a narrowing or restricted roadway. The ends closest to traffic of all three members of a wing barricade shall be in a vertical line. If used in a series, they should start at the outer edge of the shoulder and be brought progressively closer to the pavement. Wing Barricades may be used as a mounting for the advance warning or guide signs or for flashers. When used on two-way roadways, the back of the wing barricade shall be painted reflectorized white.

**CLASS II BARRICADE:**

Class II Barricades may be used only where the hazard to traffic is relatively small, and for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

**MATERIAL & FABRICATION:**

Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. Metal shall be sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. The fabrication of the barricade shall be in accord with good pertinent woodworking and metalworking practices. All lumber or timber dimensions stated are nominal.

**PAINTING:**

All barricades shall be painted in alternate 4" or 6" black and white stripes at a 45° angle. The width of stripe shall be consistent for each complete barricade installation. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by two coats of white reflectorized paint or reflective wide angle sheeting.

**DIRECTION OF DIAGONAL STRIPES:**

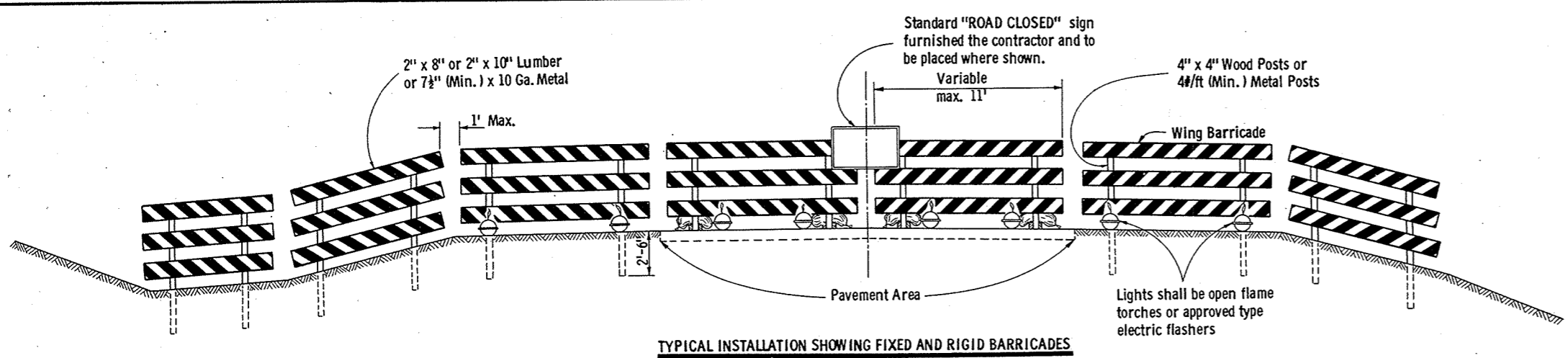
Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center. The stripes on wing barricades shall point downward toward the roadway.

**LIGHTING:**

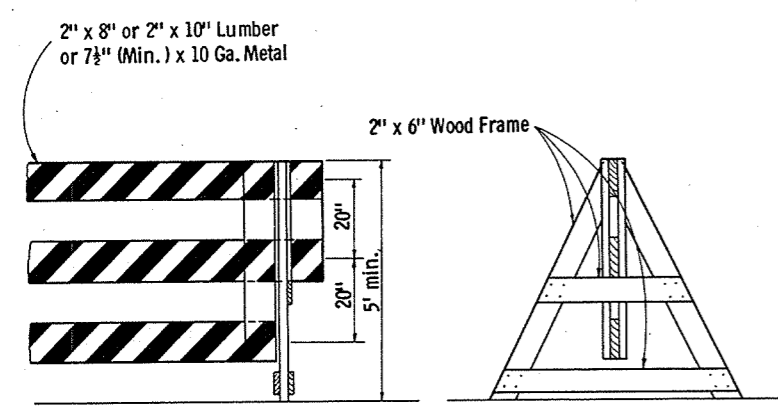
Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

**MEASUREMENT & PAYMENT:**

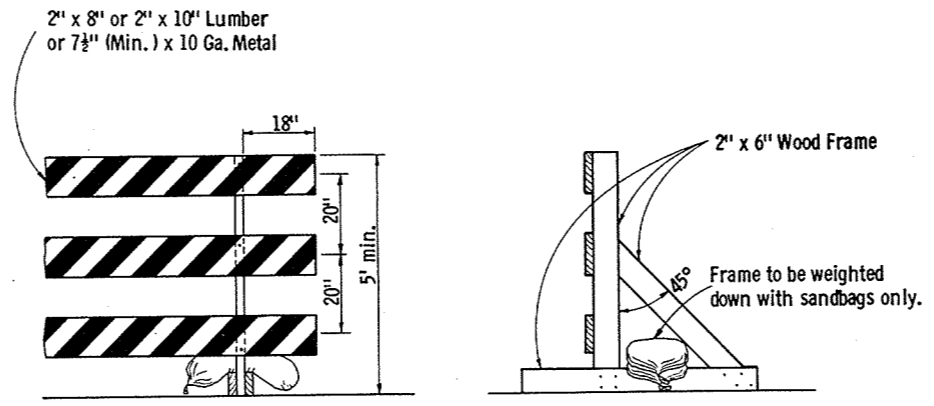
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

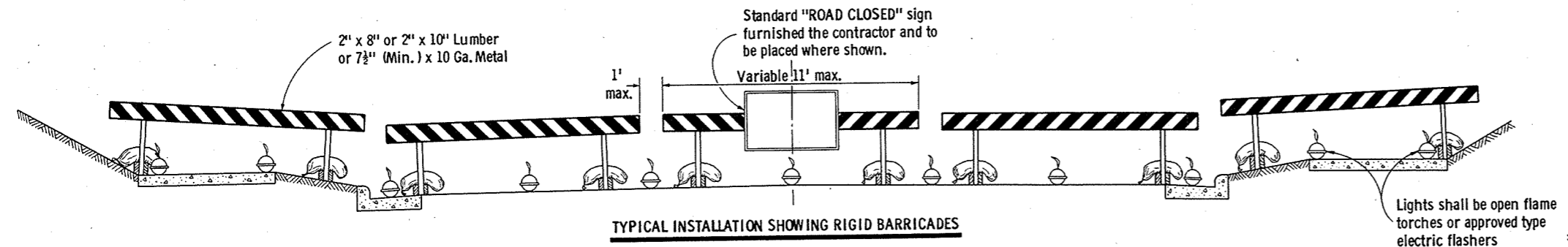


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

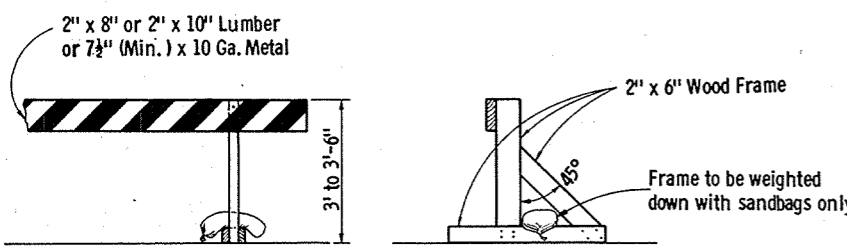


ALTERNATE TYPE INSTALLATION (RIGID)

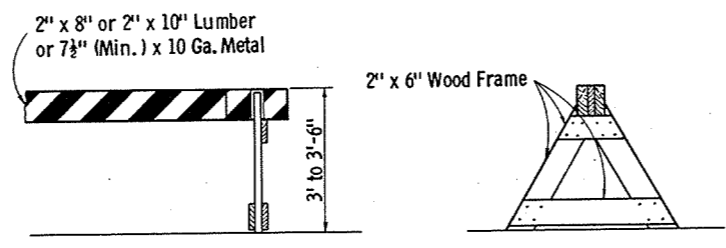
**CLASS I BARRICADES**



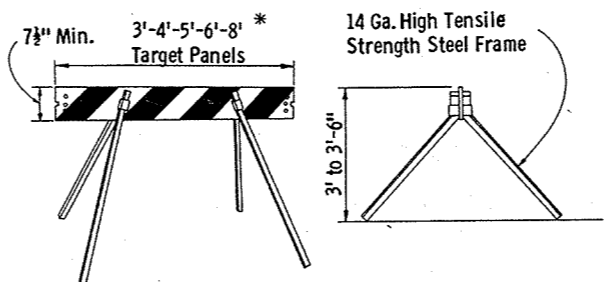
TYPICAL INSTALLATION SHOWING RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (RIGID)

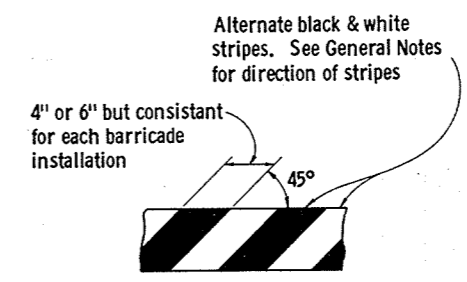


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

**CLASS II BARRICADES**



TYPICAL DIAGONAL STRIPES  
Applies to all Classes & Types of Barricades

CONSTRUCTION BARRICADE	
State Highway Commission of Wisconsin	
RECOMMENDED FOR APPROVAL:	
DATE: 1/16/67	E.J. Borki CHIEF DESIGN ENGINEER
APPROVED:	
DATE: 1/13/67	H.J. Hummels STATE HIGHWAY ENGINEER

County & Highway	Route & Section	Class & Agreement	B. P. R. Division	Project	Sheet No.	Total Sheets
70.6	1256.0	11.3	4	S 1256 (4)	6	8

4636-2-72

**LIST OF DRAWINGS**

1. GENERAL PLAN	X39890
2. DETAILS	X39891
3. DETAILS	X39892

**TOTAL ESTIMATED QUANTITIES**

<b>BID ITEMS</b>	
REMOVING OLD BRIDGE	1 LS.
EXCAVATION FOR STRUCTURE	300 C.Y.
CONCRETE MASONRY	160.3 C.Y.
BAR STEEL REINFORCEMENT	23,240 LBS
HEAVY RIPRAP	100 C.Y.
<b>NON-BID ITEMS</b>	
FILLER	3/4" SIZE
POLYVINYL CHLORIDE WATERSTOP	31 LF.

**DESIGN DATA**

LIVELOAD H-20  
 EARTHLOAD DESIGNED FOR 1'-6" OF FILL.  
 ALLOWABLE DESIGN STRESSES:  
 CONCRETE MASONRY GRADE AA'-fc 1400 PSI.  
 BAR STEEL REINFORCEMENT -fs 20,000 PSI.

**GENERAL NOTES**

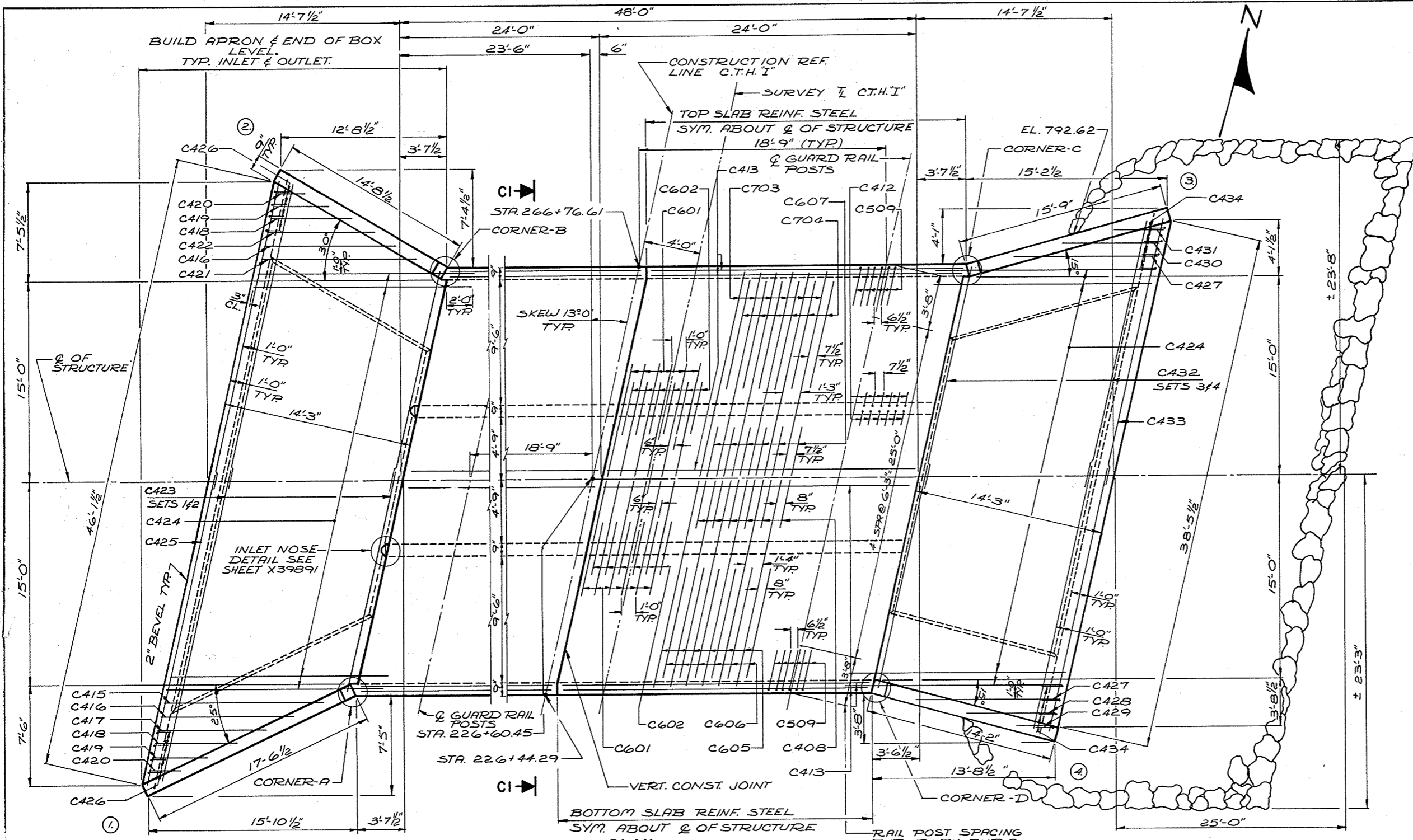
DRAWINGS SHALL NOT BE SCALED.  
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.  
 THE EXISTING GROUND LINE WAS USED AS THE UPPER LIMITS FOR COMPUTATION OF EXCAVATION FOR STRUCTURES QUANTITIES.

**BENCH MARK**

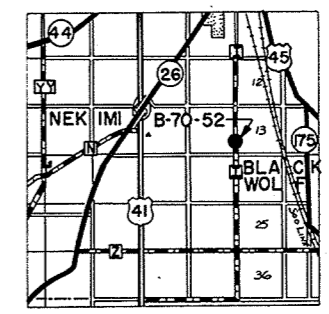
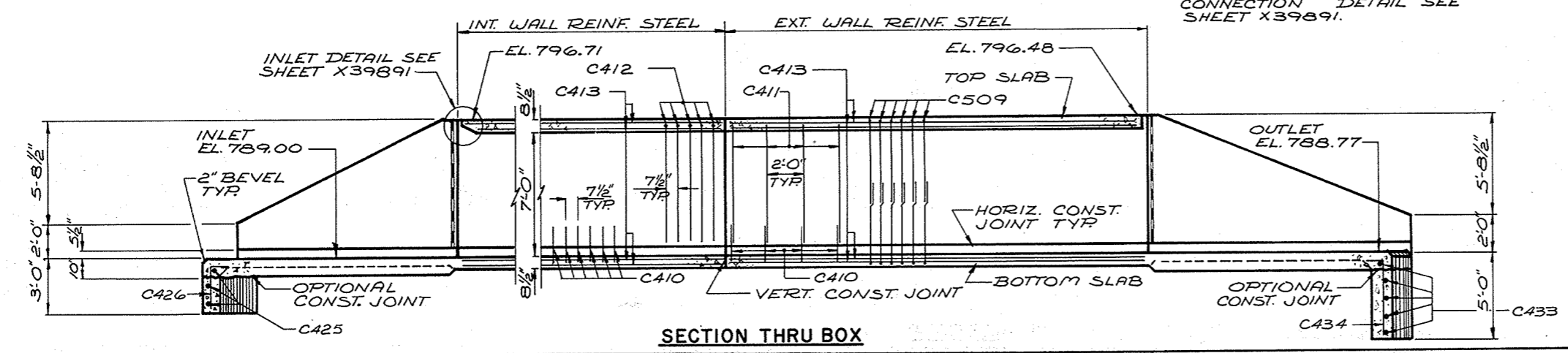
No.	STATION	DESCRIPTION	ELEV.
26	225+63	SPIKE IN 24" ELM 70' RT	795.78

**HYDRAULIC DATA**

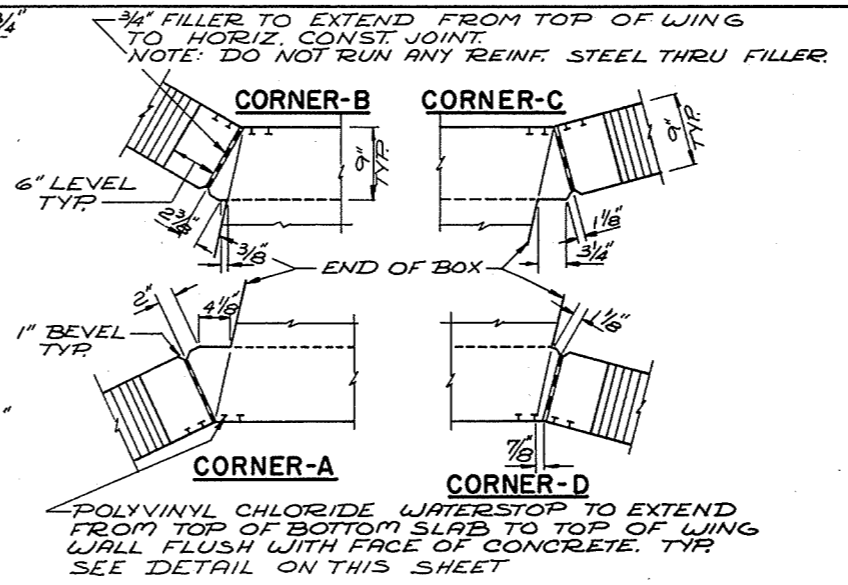
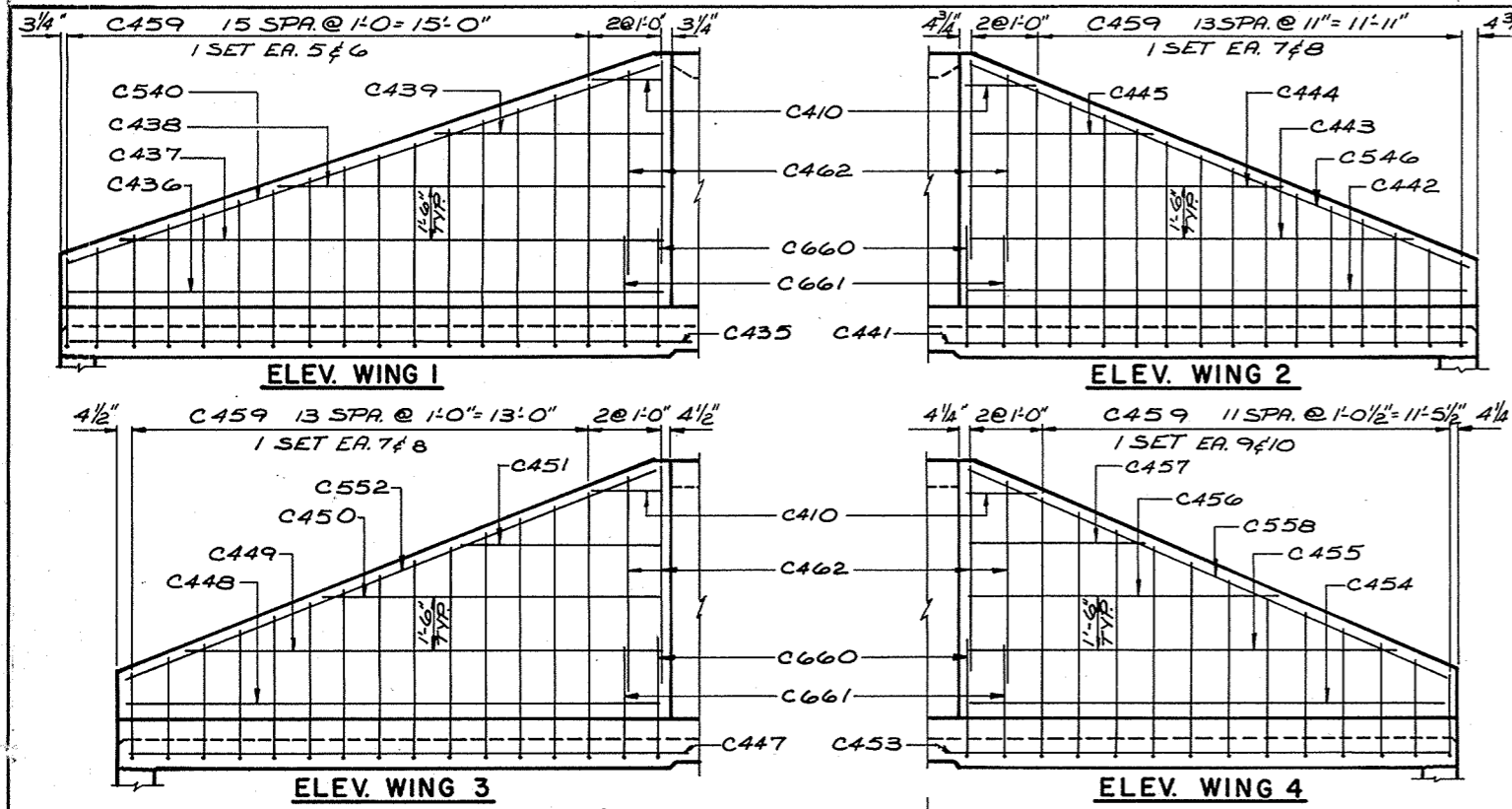
Q 50 — 1500 CFS.  
 V — 11.5 FPS.  
 H.W. — 796.0



NOTE: FOR GUARD RAIL POST CONNECTION DETAIL SEE SHEET X39891.



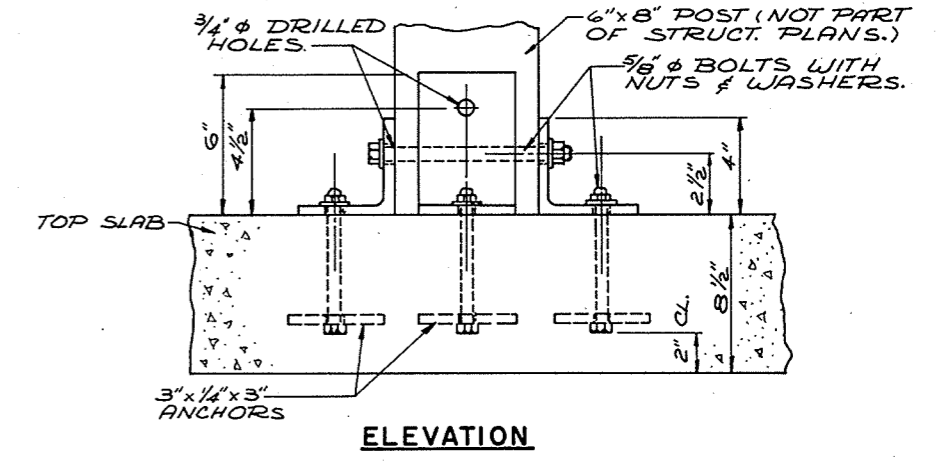
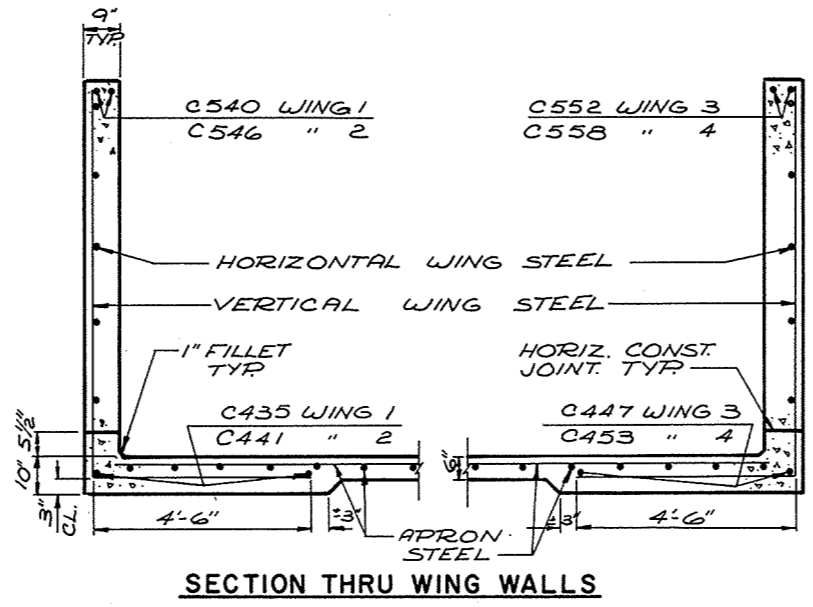
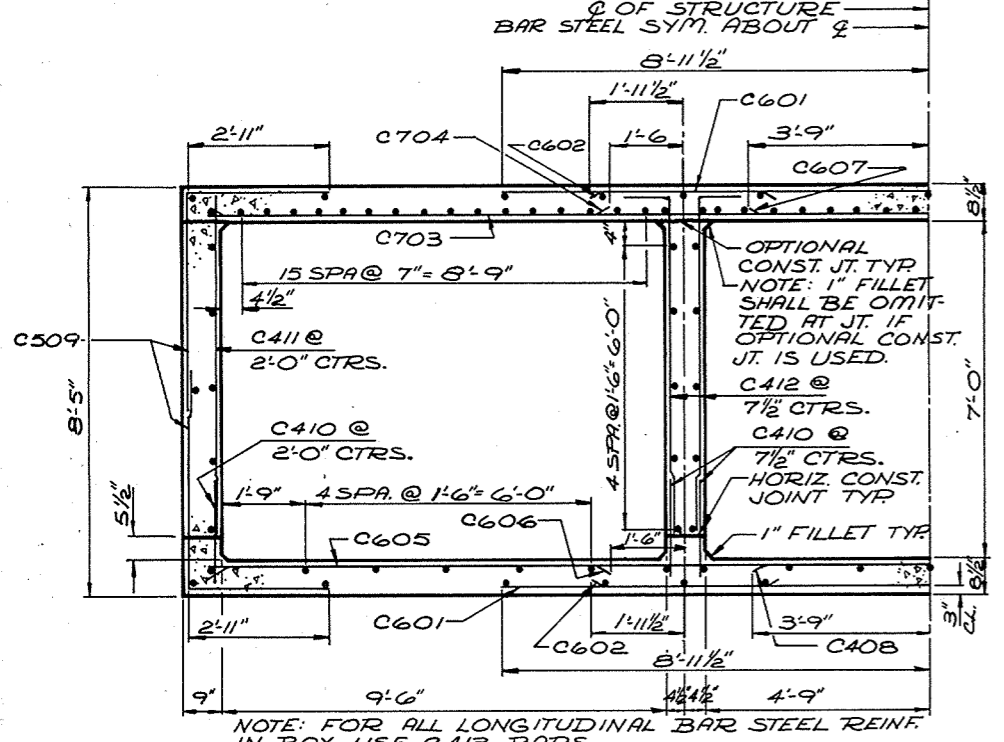
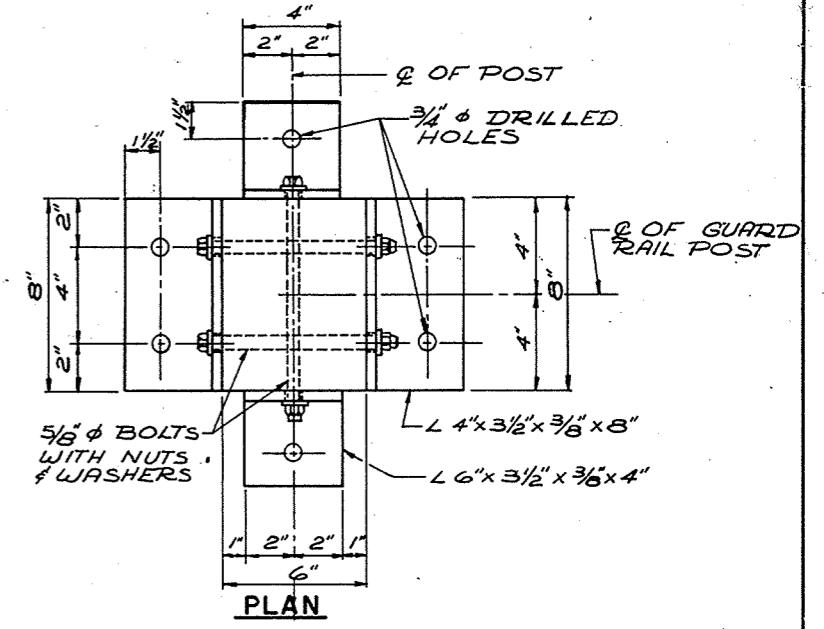
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
<b>STRUCTURE B-70-52</b>			
<b>C.T.H. "I" OVER BOX CULVERT</b>			
County WINNEBAGO	TOWNS OF NEKIMI & BLACK WOLF		
Design Spec. A.A.S.H.O. 1965	Load H-20	Const. Spec. 1969	
Designed By IBM	Checked By IBM	Drawn By FLC	Plans Checked A.G.
Approved <i>W.A. Kline</i> Chief Bridge Engineer		1-7-69 Date	
<b>GENERAL PLAN</b>			SHEET 1 OF 3
			X39890



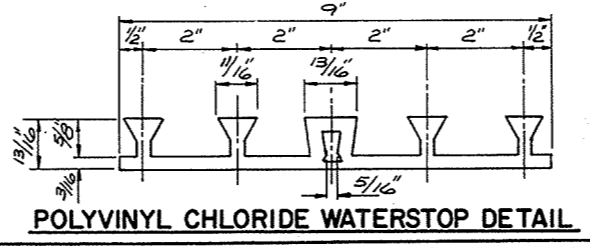
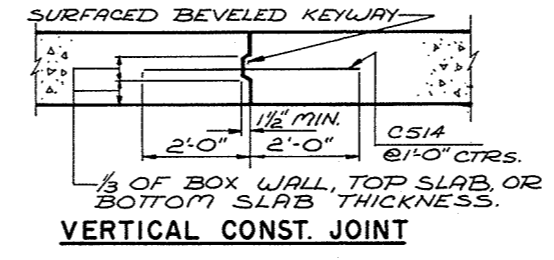
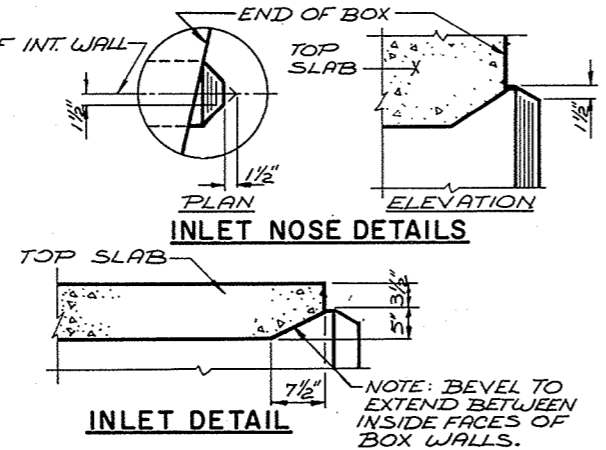
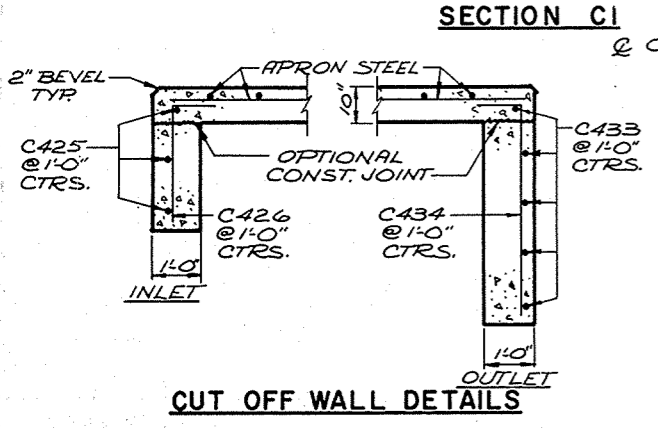
4636-2-72

B. P. R. Division	Project	Sheet Number	Total Sheets
4	S 1256 (4)	7	8

NOTE: SPACE POSTS @ 6'-3" CTRS GALVANIZE BOLTS NUTS & WASHERS & ANGLES. FOR SPACING SEE SHEET X39890



NOTE: BOLTS, NUTS, WASHERS, ANCHORS & ANGLES TO BE INCLUDED IN THE UNIT PRICE BID FOR CONC. MASONRY.  
**GUARD RAIL POST CONNECTION DETAILS**



No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
<b>STRUCTURE B-70-52</b>			
Const. Spec. 1969	Drawn By FLC	Plans Checked A.G.	
<b>DETAILS</b>			SHEET 2 OF 3
<b>X39891</b>			



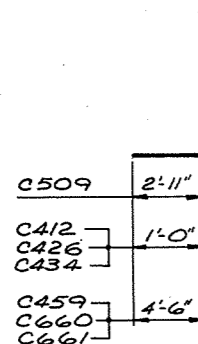
B. P. R. Division	Project	Sheet Number	Total Sheets
4	S 1256 (4)	8	8

4636-2-72

**BILL OF BARS**

ALL BENDING DIMENSIONS ARE OUT TO OUT OF BAR.  
THE FIRST DIGIT OF A THREE DIGIT MARK SIGNIFIES THE BAR SIZE.

MARK	No. REQ'D	LENGTH	BEND	CUT DIA.	LOCATION
C601	96	17-11			BOX - TOP & BOT. SLAB TRANS.
C602	188	3-11			" " & " " "
C703	39	31-9			" " " " "
C704	76	8-5			" " " " "
C605	36	31-9			" " " " "
C606	70	8-5			" " " " "
C607	36	7-6			" " " " "
C408	35	7-6			" " " " "
C509	356	7-7	X		" CORNERS
C410	360	2-0			" DOWELS VERT. & WINGS 1,2,3&4
C411	48	7-0			" EXT. WALLS VERT.
C412	308	8-0	X		" INT. " "
C413	264	23-8			" LONGITUDINAL WALLS, TOP & BOT. SLAB
C514	92	4-0			" VERTICAL CONST. JOINT
C415	1	12-0			APRON - INLET
C416	2	10-0			" " "
C417	1	8-3			" " "
C418	2	6-3			" " "
C419	2	4-3			" " "
C420	2	2-3			" " "
C421	1	11-9			" " "
C422	1	8-0			" " "
C423	14	40-0		X	" " SET 1&2 TRANS.
C424	64	16-6			" " & OUTLET
C425	6	23-6			" " CUT OFF WALL
C426	44	3-6	X		" " " " "
C427	2	10-9			" OUTLET
C428	1	6-9			" " "
C429	1	2-9			" " "
C430	1	7-3			" " "
C431	1	3-9			" " "
C432	14	36-6		X	" " SETS 3&4
C433	10	20-0			" " CUT OFF WALL
C434	38	5-6	X		" " " " "
C435	2	17-9			WING 1 @ APRON
C436	1	17-0			" " HORIZ.
C437	1	15-6			" " " "
C438	1	11-0			" " " "
C439	1	6-6			" " " "
C540	2	17-9			" " TOP
C441	2	14-9			" 2 @ APRON
C442	1	14-0			" " HORIZ.
C443	1	12-9			" " " "
C444	1	9-0			" " " "
C445	1	5-3			" " " "
C546	2	15-3			" " TOP
C447	2	16-0			" 3 @ APRON
C448	1	15-3			" " HORIZ.
C449	1	13-9			" " " "
C450	1	9-9			" " " "
C451	1	5-9			" " " "
C552	2	16-3			" " TOP
C453	2	14-3			" 4 @ APRON
C454	1	13-6			" " HORIZ.
C455	1	12-3			" " " "
C456	1	8-9			" " " "
C457	1	5-0			" " " "
C558	2	14-9			" " TOP
C459	28	18-6	X	X	" 1,2,3&4 VERT. SETS 5,6,7,8,9,10
C660	4	7-9	X		" 1,2,3&4 "
C661	4	7-6	X		" 1,2,3&4 "
C462	8	6-0			" 1,2,3&4 "



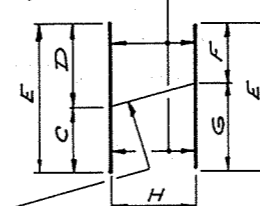
**CUTTING DIAGRAM**

"H" IS No. OF BARS REQ'D BEFORE CUTTING

MARK	SET No.	C	D	E	F	G	H	SETS REQ'D
C423	SET 1	16-6		40-0		23-6	14	1 SET 1
"	2		23-6		16-6			1 " 2
C432	3	16-6				20-0	14	1 " 3
"	4		20-0	36-6	16-6			1 " 4
"	5	9-3		18-6		11-9	8	1 " 5
"	6		9-3		6-9			1 " 6
C459	7	9-3		18-6		11-9	7	2 " 7
"	8		9-3		6-9			2 " 8
"	9	9-3		18-6		11-9	6	1 " 9
"	10		9-3		6-9			1 " 10

NOTE: BENT BARS IF USED IN CUTTING DIAGRAM SHALL BE BENT AFTER CUTTING.

CUT BUNDLE & MARK.  
MARK WITH BAR No.  
& SET No.



MARK & CUT ALL BARS ALONG THIS LINE. MAKE ALL CUTS NORMAL TO BAR AXIS.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
<b>STRUCTURE B-70-52</b>			
Const. Spec. 1969	Drawn By FLC	Plans Checked A.G.	
<b>DETAILS</b>			SHEET 3 OF 3 <b>X 39892</b>