COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.6	1460.0		11.1	4	4	

PLAN NO. 167

SEE LARGE PLAN # 146 H

This plan does not match Plan #146 H or recorded deeds in V. 245 P 149

BEGINNING OF RELOCATION ORDER (SEC. 1)
PROJECT S 1460(1)
STA. 53+00

See plan #146 & V 245 P 149

END OF RELOCATION ORDER (SEC. 1)
PROJECT S 1460(1)
STA. 75+51

PL 48+97

WILBERT & LAVERNE LOSHING

SE-SW

PC 55+30.9

I = 173°-34'
Δ = 6°-26'
D = 1°-00'
T = 322.0
L = 643.3
E = 9.0
R = 5,729.6

PT. 61+74.2

CHANNEL CHANGE EASEMENT REQ'D.

NE-SW

V 359 P 573

V 359 P 573

PC. 63+89.0

I = 191°-27'
Δ = 11°-27'
D = 2°-15'
T = 225.3'
L = 508.9
E = 12.7
R = 2,546.6
CB N0°41'30"W
CL 508.066'

PT 68+97.9

CHANNEL CHANGE EASEMENT REQ'D.

ROTATE N0°11'40"E

PL 54+57

WILBERT & LAVERNE LOSHING

SW-SE

PL 62+28.5

LILLIAN LOSHING ET. AL.

NW-SE

DITCH EASEMENT REQ'D

V 359 P 573

PC. 72+00.9

I = 174°-51'
Δ = 5°-09'
D = 1°-00'
T = 257.7'
L = 515.0
E = 5.8
R = 5,729.6

PT. 77+15.9

PL 75+51

GEORGE ANDERSON

SE-NW

EQ. 80+60A = 78+60B

PL

N 0°-07' W

J. CLIFFORD MARTIN

SW-NE

GEORGE ANDERSON

NE-NW

PC. 97+46.1

PT. 99+37.8

PC. 100+06.2

PT. 101+93.7

J. CLIFFORD MARTIN

NW-NE

EASE 103+65 0°-20' Rt.

245/114

T 17 N R 6 W

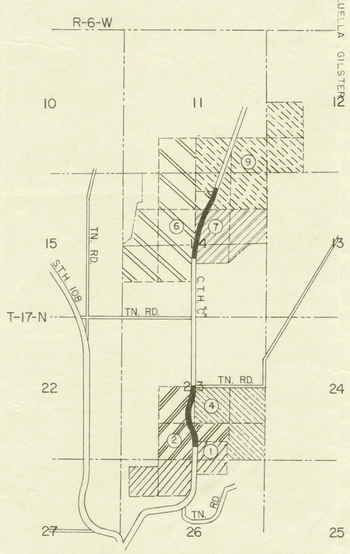
SECTION 23

TOWN OF HAMILTON

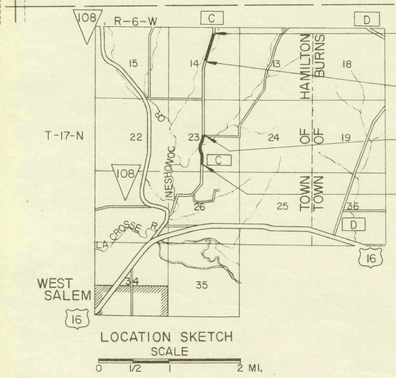
RECEIVED
FEB 6 1963
ESTHER M. DOWNE
County Clerk

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PAR.	OWNER	ACRES	INTEREST REQUIRED	TOTAL ACRES
1	RICHARD & LUELLA GILSTER	0.06	FEE SIMPLE	90
2	WILBERT & LAVERNE LOSHING	2.03	FEE SIMPLE	143
3	WILBERT & LAVERNE LOSHING	0.37	L.H.E. FOR CHANNEL CHANGE	——
4	LILLIAN LOSHING ET. AL.	0.40	FEE SIMPLE	120
5	LILLIAN LOSHING ET. AL.	1.62	L.H.E. FOR CHANNEL CHANGE AND DITCH EASEMENT	——
6	WILLIAM F. J. DEUTRICH	0.33	FEE SIMPLE	207.5
7	MONROE & DONNA OLSON	1.32	FEE SIMPLE	105
8	MONROE & DONNA OLSON	0.71	L.H.E. FOR CHANNEL CHANGE	——
9	CLARENCE E. BOCHENHAUER	0.28	FEE SIMPLE	228
10	NORTHERN STATES POWER CO.	——	POLE EASEMENT RELEASE	——
11	LA CROSSE TELEPHONE CO.	——	POLE EASEMENT RELEASE	——



SKETCH OF LAND OWNERSHIP



LOCATION SCALE
0 1/2 1 2 MI.

STA. 150+00
END OF RELOC. ORDER (SECTION 2)
PROJECT S 1460(1)

STA. 125+00
BEG. OF RELOC. ORDER (SECTION 2)
PROJECT S 1460(1)

STA. 75+51
END OF RELOC. ORDER (SECTION 1)
PROJECT S 1460(1)

STA. 53+00
BEG. OF RELOC. ORDER (SECTION 1)
PROJECT S 1460(1)

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 1460(1)

S.T.H. 108 - C.T.H. "D" ROAD

C.T.H. "C" LA CROSSE COUNTY

SCALE
0 200 400 FT.

LENGTH = 0.426 MILES

FEBRUARY 4, 1963
DATED JANUARY 18, 1963

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.6	1460.0		11.1	4	4.1	

SCHEDULE OF LANDS AND INTERESTS REQUIRED				
PAR.	OWNER	ACRES	INTEREST REQUIRED	TOTAL ACRES
6	WILLIAM F. J. DEUTRICH	0.33	FEE SIMPLE	207.5
7	MONROE & DONNA OLSON	1.32	FEE SIMPLE	105.0
8	MONROE & DONNA OLSON	0.71	L.H.E. FOR CHANNEL CHANGE	——
9	CLARENCE E. BOCHENHAUER	0.28	FEE SIMPLE	228.0
10	NORTHERN STATES POWER		POLE EASEMENT RELEASE	——
11	LA CROSSE TELEPHONE CO.		POLE EASEMENT RELEASE	——
12				

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 1460(1)

S.T.H. 108 - C.T.H. "D" ROAD

C.T.H. "C" LA CROSSE COUNTY

SCALE 0 200 400 FT.

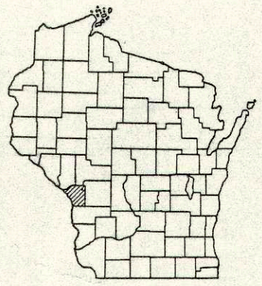
LENGTH = 0.899 MILES

DATED JANUARY 18, 1963

FEBRUARY 4, 1963

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT: STATE	CLASS AND AGREEMENT: FEDERAL	B.P.R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
32.6	14600		111	4 WIS.	1	20

INDEX OF SHEETS



STATE OF WISCONSIN

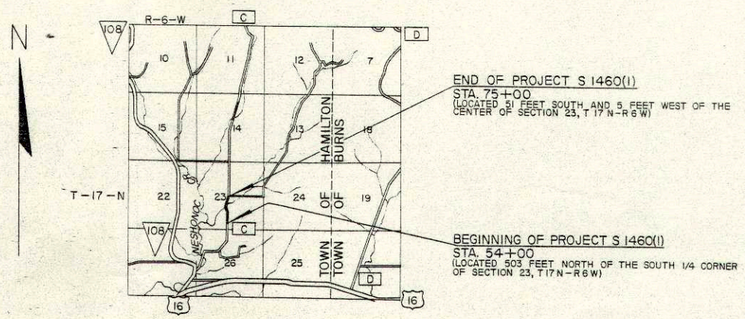
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED

S.T.H. 108 - C.T.H. "D"

C.T.H. "C"
LA CROSSE COUNTY
PROJECT S 1460(1)

SCALES
PLAN 1 IN. = 100 FT.
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS SECTIONS HOR. 1 IN. = 10 FT. VERT. 1 IN. = 10 FT.



LAYOUT

SCALE 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.398 MI.

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
NEW RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
WIRE FENCE { WOVEN, BARBED
LOT LINE
CORPORATE OR CITY LIMITS
PROPERTY LINE — P.L. + 32.6
TRAVELED WAY OR P.E.
RAILROADS
BASE OR SURVEY LINE — 30

CULVERTS IN PLACE
CULVERTS REQUIRED
DROP INLET
POWER POLE
TELEPHONE OR TELEGRAPH POLE
RIGHT OF WAY MARKERS
REFERENCE STAKE FOR HUBS ONLY — +81.7 29.9
MARSH
HEDGE
TREES
GROUND ELEVATION ..... DATUM LINE 73.9
GRADE ELEVATION ..... DATUM LINE 75.16

APPROVED FOR LA CROSSE COUNTY BY:

2-20-1963 DATE — COMMISSIONER

STATE HIGHWAY COMMISSION OF WISCONSIN
MADISON, WIS.

SURVEYOR D.E.K. NOTE BOOK LL
DIVISION COMPUTER W.H.T. M. O. CHECKER R.L.C
DISTRICT CHECKER R.C.J. CORRECT

CORRECT:
DATE 2-22-63 — DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL:
DATE 3-8-63 — ENGINEER OF DESIGN

APPROVED:
DATE 3/11/63 — STATE HIGHWAY ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:
DATE

DIVISION ENGINEER

S 1460(1)

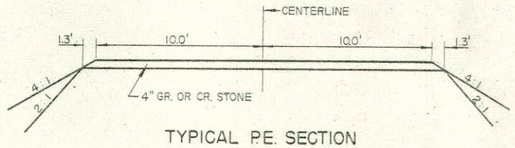
ESTIMATE OF QUANTITIES

CONTRACT NO. 1

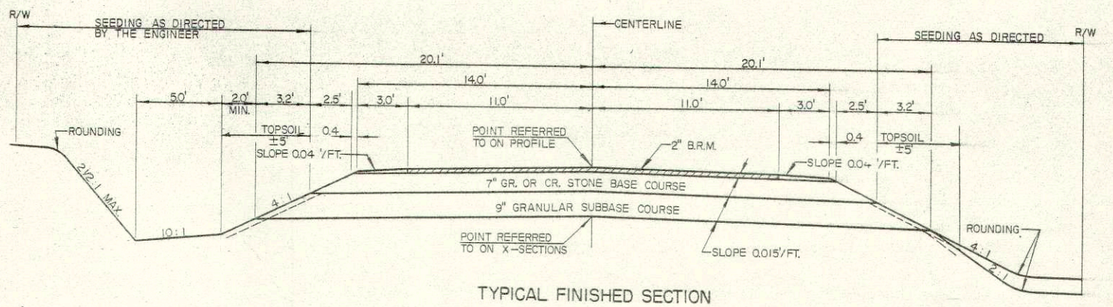
PROJECT	SHEET NUMBER	TOTAL SHEETS
S 1460(1)	2	20

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN — EDITION OF 1963, SUBMITTED FOR APPROVAL JANUARY 25, 1963 AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

	STATION TO STATION		NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	EXCAVATION			GRANULAR SUB-BASE COURSE	FINISHING ROADWAY	OBLITERATING OLD ROAD	GRAVEL OR CRUSHED STONE BASE COURSE		CULVERT PIPE				C.M.C.P. 36"	RIP-RAP	STEEL PLATE BEAM GUARD		MARKER POSTS	MARKER POSTS FOR R/W		REMOVING OLD BRIDGE STA. 66+92		APRON ENDWALLS FOR CULVERT PIPE			MORTAR RUBBLE DITCH CHECKS	MORTAR RUBBLE MASONRY	CONCRETE MASONRY, CULVERTS	BAR STEEL REINF. CULVERTS			TOPSOIL		FERTILIZER	SEEDING	SODDING
						UNCLASSIFIED	FOR STRUCTURES, CULVERTS							CLASS III 18"	CLASS III 24"	CLASS III 36"										APRON ENDWALLS FOR CULVERT PIPE 18"	APRON ENDWALLS FOR CULVERT PIPE 24"	APRON ENDWALLS FOR CULVERT PIPE 36"									TOPSOIL SALVAGED				
	ITEM NO.			20101	20104	20503	20602	210 -	21201	21301	21401	30401	23	52003	52005	52009		52111	60601	61410	2523-	61421	61422		20351		52061	52063	52067		60503	51801	50401	50502			2528-1	62505		63001	63101
	UNIT		LIN. FT.	STA.	STA.	C.Y.	C.Y.	C.Y.	C.Y.	L.S.	STA.	C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	C.Y.	LIN. FT.		EACH	EACH		L.S.		EACH	EACH	EACH		C.Y.	C.Y.	C.Y.	L.B.			SQ. YD.	SQ. YD.	CWT.	SQ. YD.	SQ YD
1	54+00 - 75+00		2,100.0	11	12	18,163	110		2,850	1		2,100		124	60	40		50	320	231		19	22		1		8	2	2		2	3	180	25,800				2,400		20,600	300

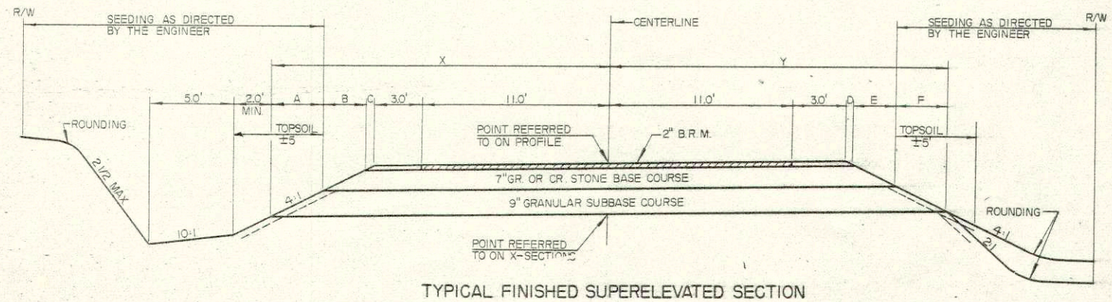


TYPICAL P.E. SECTION



TYPICAL FINISHED SECTION

NOTE : BITUMINOUS SURFACE NOT A PART OF THIS CONTRACT



TYPICAL FINISHED SUPERELEVATED SECTION

APPLICABLE STANDARD DETAIL DRAWINGS

6-2.4.3 MORTAR RUBBLE MASONRY OR RIPRAP FOR CULVERT & CATTLE PASS ENDWALLS
6-2.6.2 APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
7-1.3.4 MARKER POST & MARKER POSTS FOR RIGHT OF WAY
7-4.1.4 CONSTRUCTION BARRICADE
8-1.3.1 DITCH CHECKS, MORTAR RUBBLE MASONRY & SOD

7-2.4.10STEEL PLATE BEAM GUARD & STEEL BEAM MEDIAN GUARD

SUPERELEVATED SECTION VARIABLE DISTANCES									
DEG. OF CURVE	SUPERELEV. FT./FT.	A	B	C	D	E	F	X	Y
1°-00'	0.018	3.2	2.5	0.4	0.6	2.2	2.8	20.1	19.6
2°-15'	0.034	3.5	2.7	0.6	0.6	2.0	2.6	20.8	19.2

NOTE: WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, BASE, OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL DIRECTED BY THE ENGINEER.
SALVAGED TOPSOIL SHALL BE PLACED AS SHOWN ON PLANS TO AN APPROXIMATE DEPTH OF 3" AT TIME OF PLACING.

DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

CLEARING AND GRUBBING

Sta. - Sta.	Location	Clearing Sta.	Grubbing Sta.
60+00-61+00	Centerline	1	1
64+00-68+00	Centerline	4	4
68+00-69+00	Centerline		1
67A+00-69A+00	Chan. Change	2	2
69+00-72+00	Centerline	3	3
74+00-75+00	Centerline	1	1

GRAVEL OR CRUSHED STONE BASE COURSE

Sta. - Sta.	Location	C.Y.
53+50-54+00	Approach	40
54+00-75+00	Centerline	1,800
75+00-76+00	Approach	80
~~53+50-76+00~~	~~Shoulders~~	~~90~~
54+35	P.E. Rt.	10
60+45	P.E. Lt.	15
60+45	P.E. Rt.	15
63+70	P.E. Rt.	15
69+90	P.E. Lt.	20
71+90	P.E. Rt.	15
Undistributed		90

MARKER POSTS FOR SHOULDER DELINEATION

Sta. - Sta.	Location	Spacing	Number
65+50-67+50	Lt.	50'	5
67+00-71+50	Rt.	50'	10

CULVERTS, MARKER POSTS, APRON ENDWALL AND MORTAR RUBBLE MASONRY

Sta. - Sta.	Location	Size	Length	Type	Apron Endwalls	Mort.Rub. Masonry	Marker Posts
60+45	P.E. Lt.	18"	32'	C.P.	2	-	-
60+45	P.E. Rt.	18"	32'	C.P.	2	-	-
63+70	P.E. Rt.	18"	32'	C.P.	2	-	-
63+70	P.E. Rt.	36"	40'	C.P.	2	-	-
66+72-67+14	Down Drain	36"	50'	C.M.C.P.	-	1.3	-
C-32-37	Centerline	-	-	-	-	-	2
69+86	Centerline	24"	60'	C.P.	2	-	2
71+90	P.E. Rt.	18"	28'	C.P.	2	-	-

EROSION CONTROL - RIPRAP, MORTAR RUBBLE MASONRY AND SOD

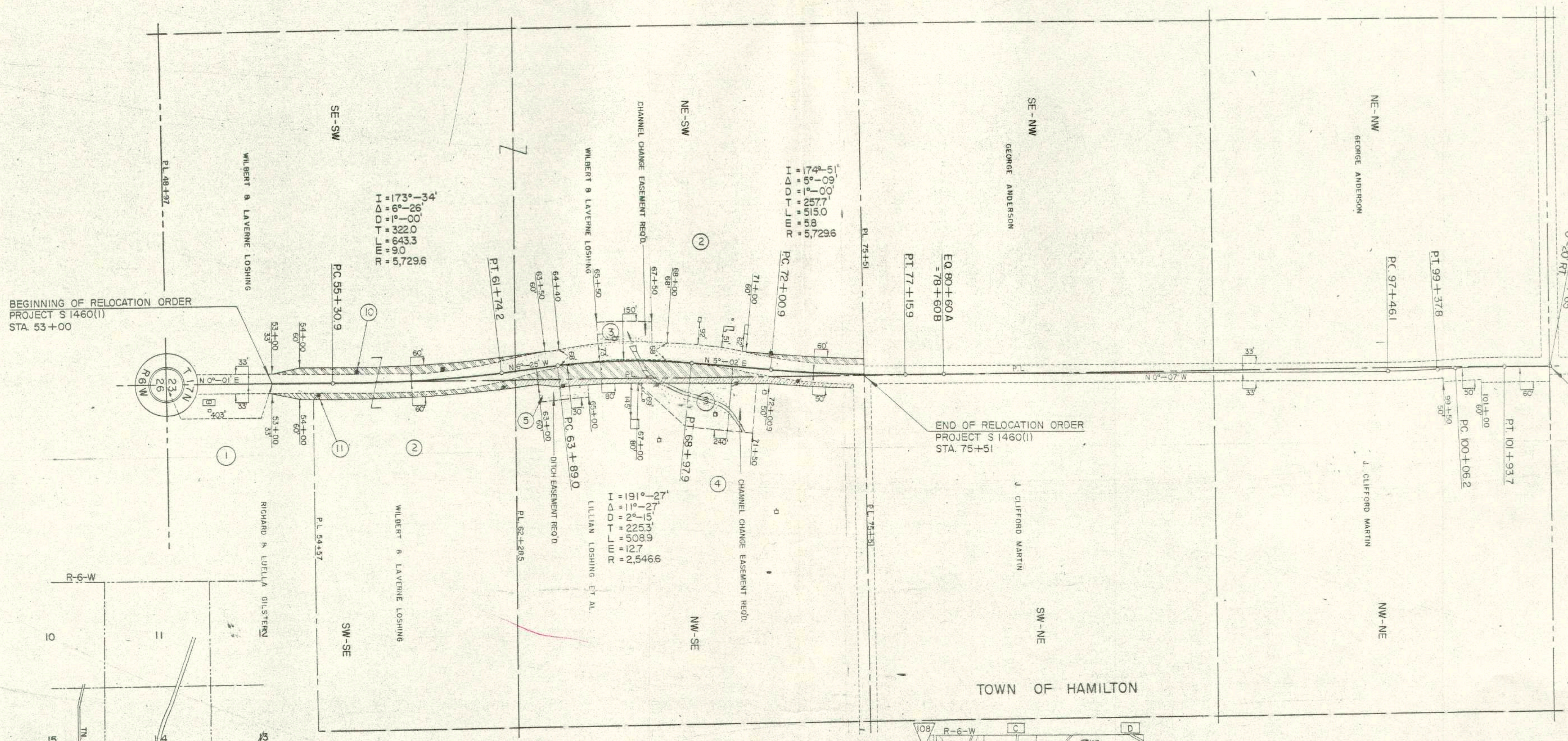
Sta. - Sta.	Location	Riprap	Mort. Rub. Masonry	Sod	Remarks
64+10	Rt.	15	-		
64+30	Rt.	-	-	100	Flume
66+35-66+70	Rt.	-	2.0	20	Two Ditch Checks
67+00	Lt.	110	-		Channel Change
67+25	Rt.	140	-		Channel Change
69+86	Rt.	-	-	100	Discharge Pipe
Undistributed		15	1.7	80	
70"A"+60-71"A"+70	Lt.	40			Channel Change

STEEL PLATE BEAM GUARD

Sta. - Sta.	Location	L.G.
52+98.5 - 53+76.5	Rt.	78
52+73.5 - 54+26.5	Lt.	153

PROJECT	SHEET NO.	TOTAL SHEETS
S 01460(1)	3	20

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER
		STATE	FEDERAL		
32.6	1460.0		11.1	4	4



BEGINNING OF RELOCATION ORDER
PROJECT S 1460(1)
STA. 53+00
END OF RELOCATION ORDER
PROJECT S 1460(1)
STA. 75+51
I = 173°-34'
Δ = 6°-26'
D = 1°-00'
T = 322.0
L = 643.3
E = 9.0
R = 5,729.6
I = 174°-51'
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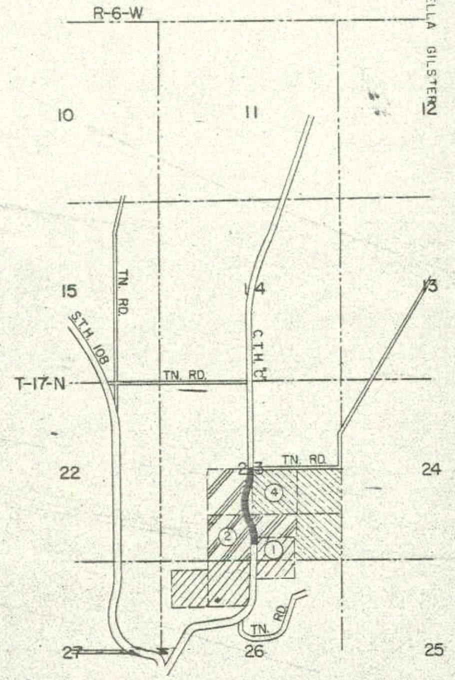
T = 257.7
L = 515.0
E = 5.8
R = 5,729.6
I = 191°-27'
Δ = 11°-27'
D = 2°-15'
T = 225.3
L = 508.9
E = 12.7
R = 2,546.6
PC 55+30.9
PT 61+74.2
PC 63+89.0
PT 68+97.9
PC 72+00.9
PT 77+15.9
EQ 80+60A = 78+60B
PC 97+46.1
PT 99+37.8
PC 100+06.2
PT 101+93.7
WILBERT & LAVERNE LOSHING
RICHARD & LUELLA GILSTER
GEORGE ANDERSON
J. CLIFFORD MARTIN
LILLIAN LOSHING ET AL.
CHANNEL CHANGE EASEMENT REQ'D.
DITCH EASEMENT REQ'D.
SE-SW
NE-SW
SE-NW
NE-NW
SW-SE
NW-SE
SW-NE
NW-NE
T17N R6W
TOWN OF HAMILTON



SKETCH OF LAND OWNERSHIP

SCHEDULE OF LANDS AND INTERESTS REQUIRED				
PAR.	OWNER	ACRES	INTEREST REQUIRED	TOTAL ACRES
1	RICHARD & LUELLA GILSTER	0.06	FEE SIMPLE	90
2	WILBERT & LAVERNE LOSHING	2.03	FEE SIMPLE	143
3	WILBERT & LAVERNE LOSHING	0.37	L.H.E. FOR CHANNEL CHANGE	——
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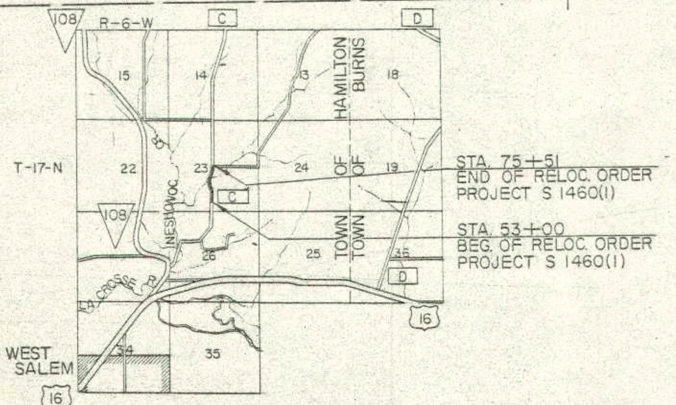
10	NORTHERN STATES POWER CO.	—	POLE EASEMENT RELEASE	——
11	LA CROSSE TELEPHONE CO.	—	POLE EASEMENT RELEASE	——



LOCATION SKETCH

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 1460(1)

S.T.H. 108 - C.T.H. "D" RO

C.T.H. "C" LA CROSSE COUN

SCALE 0 200 400 FT.

LENGTH = 0.426 MILES

DATED FEBRUARY 4 JANUARY 18

S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S1460(1)	5	20

POT. 48+97 IRON PIN DOWN 1"

PC 55+30.9 IRON PIN DOWN 1"

PI

ONE LANE BRIDGE SIGN

PT 61+74.2 IRON PIN DOWN 1"

PC 63+89 IRON PIN

PI

PT 68+97.9 IRON PIPE

PC 72+00.9 IRON PIPE DOWN 1"

PI

PT 77+15.9 IRON PIN DOWN 1"

WILBERT & LAVERN LOSCHING

NORTHERN STATES POWER CO.

Δ = 6°-26'
D = 1°-00'
T = 322.0'
L = 643.3'
S.E. = 0.018'/FT.

PC 55+30.9

PT 61+74.2

1-18"X32' C.P. REQ'D. CL. III
2 APRON ENDWALLS REQ'D.

N6°-25'W

N0°-01'E

BEG. OF PROJ. S1460(1)
STA. 54+00

R. GILSTER

STA. 54+38
1-24"X24' C.M.P. IN PLACE
REMOVE

LA CROSSE TELEPHONE CO.

WILBERT & LAVERN LOSCHING

℄ CHANNEL

SECTION AT RT ANGLES TO CHANNEL

CH.CH. EASEMENT REQ'D.

SLOPE TO DRAIN

STA. 66+92
36' PLATE GIRDER BRIDGE IN PLACE
& ROADWAY REMOVE.

Δ = 5°-08'
D = 1°-00'
T = 257.1'
L = 515.0'
S.E. = 0.018'/FT.

PC 72+00.9

N5°-02'E

DITCH CHECK IN PLACE

G. ANDERSON

PT 77+15.9

80+60 A & 78+60 B

83+14

N0°-01'W

DITCH

SOD FLUME

RIP RAP

DAM REQ'D.

1-36"X50' CMCP REQ'D.
1-M.R.M. END WALL REQ'D.

SOD REQ'D.

1-36"X40' CL. III C.P. REQ'D.
2 APRON ENDWALLS REQ'D.

1-18"X32' C.P. REQ'D. CL. III
2 APRON ENDWALLS REQ'D.

Δ = 1°-27'
D = 2°-15'
T = 255.3'
L = 508.9'
SE = 0.034'/FT.

PC 63+89

PT 68+97.9

DITCH EASEMENT REQ'D.

LILIAN LOSHING ET AL

CH.CH. EASEMENT REQ'D.

1-18"X28' C.P. REQ'D. CL. III
2 APRON ENDWALLS REQ'D.

RIP RAP REQ'D.

END OF PROJ. S1460(1)
STA. 75+00

J.C. MARTIN

80-B

BENCH MARKS

BM #2	STA. 66+08	PK. IN POWER POLE	84' LT.	ELEV. 727.09
BM #3	STA. 75+52	PK. IN POWER POLE	46' LT.	ELEV. 759.32

NET LENGTH OF CENTERLINE STA. 54+00 - 75+00 = 2100.0 LIN. FT.

UNCL = 18,163 C.Y. { RDWY 15,098 C.Y.
CH.CH. 3,065 C.Y.

F = 14,096 C.Y. @ 25% SHG.

CH.CH. F = 434 C.Y. @ 25% SHG.

BEG. OF PROJ. S1460(1)
STA. 54+00

PC 55+52.6
1669.9

PI 58+52.9
1065.46

PC 62+52.9
1146.26

PT 61+52.9
751.06

600' V.C.
480 SSD = 62 M.P.H.

4.8%

830' V.C.

PT 70+82.9
1141.28

PI 66+46.9
726.34

STA. 67+16 CULT. NO. C-32-27
1-12'X10'X84' R.C. BOX REQ'D
SKEW 31° R.H.F.
SEE DRAWINGS X 76529-X76531

STA. 69+90 C.P. REQ'D.
1-24" X 60' CLASS III
SKEW 15° L.H.F.
APRON ENDWALLS REQ'D. LT. & RT.

PC 71+40.9
1451.11

PI 73+42.9
1423.69

PT 75+60.9
955.11

400' V.C.
525 SSD = 64 M.P.H.

END OF PROJ. S1460(1)
STA. 75+00

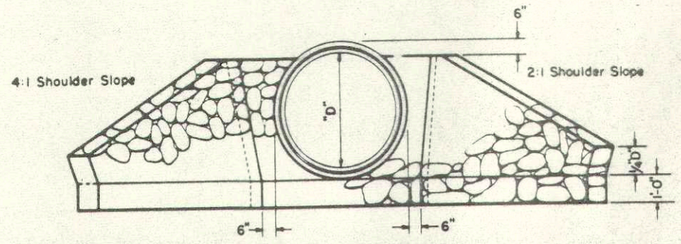
780 770 760 750 740 730 720 710 700

9 50 1 2 40 3 55 4 11.80 55 11.00 10.40 6 68.34 7 66.98 8 64.47 9 61.39 45 60 59.82 1 57.74 2 53.52 48.80 47.41 60 45.92 3 44.11 41.05 40.30 32.35 67.50 36.54 55.70 55.31 55.02 34.85 34.88 34.97 55.15 36.00 36.40 67.94 58.65 1 41.00 43.68 45.14 45.53 48.78 51.50 53.67 55 62 3 4 75 61 6 7 78 80 81 2 3

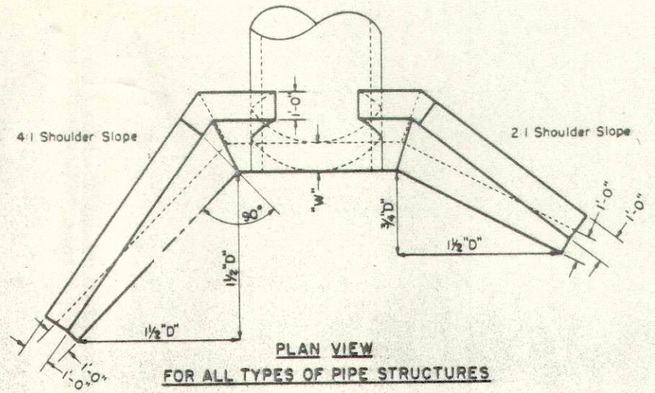
PLATE I — PLAN-PROFILE S P R STANDARD
DESIGN PRODUCTS CO. Rhinelander

PLAN — SURVEYED: DEK; PLOTTED: WHT; NOTE BOOK: ALIGNMENT CHECKED: WHT; VOL. E...; RT OF WAY CHECKED: EWH

PROFILE — SURVEYED: DEK; PLOTTED: WHT; NOTE BOOK: GRADES CHECKED: EWH; NO. ...; STRUCTURE NO'S ATTACHED: CHKD

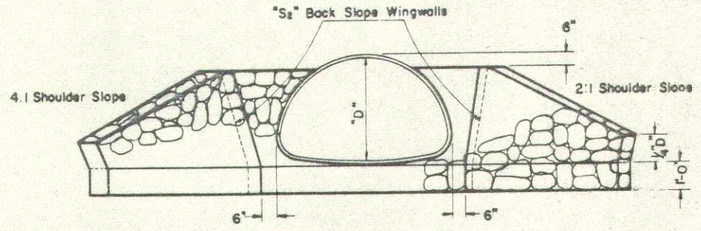


END ELEVATION
SHOWING CONCRETE CIRCULAR PIPE INCL. CATTLE PASS

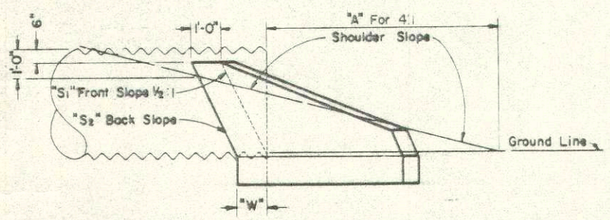


PLAN VIEW
FOR ALL TYPES OF PIPE STRUCTURES

CIRCULAR PIPE		Cu Yds Mortar Rubble Masonry or Riprap per Endwall		"A" (Feet)	"B" (Feet)	Front Slope "S1"	Back Slope "S2"	Width of Footing at "W" (Feet)
Size of Pipe	Type of Pipe	4:1 Slope	2:1 Slope	4:1 Slope	2:1 Slope			
24"	R.C.C.P.	1.2	1.0	3.4	0.8	½:1	½:1	1.0
	C.M.C.P.	1.0	0.8	2.8	0.6	"	"	"
30"	R.C.C.P.	1.5	1.3	5.1	1.5	"	"	"
	C.M.C.P.	1.3	1.0	4.6	1.3	"	"	"
36"	R.C.C.P.	2.0	1.6	6.9	2.3	"	"	"
	C.M.C.P.	1.7	1.3	6.3	2.1	"	"	"
42"	R.C.C.P.	2.6	2.1	8.9	3.1	"	"	"
	C.M.C.P.	2.2	1.7	8.1	2.9	"	"	"
48"	R.C.C.P.	3.2	2.6	10.7	3.9	"	"	"
	C.M.C.P.	2.8	2.2	9.8	3.6	"	"	"
60"	R.C.C.P.	8.4	6.9	14.5	5.5	"	¼:1	2.38
	C.M.C.P.	6.9	5.9	13.3	5.2	"	"	2.20
72"	R.C.C.P.	12.4	9.9	18.3	7.1	"	"	2.68
	C.M.C.P.	10.0	8.0	16.8	6.2	"	"	2.40



END ELEVATION
SHOWING CORRUGATED METAL PIPE ARCH



SIDE ELEVATION

PIPE ARCH

29"x 18"	C.M.C.P.	1.0	0.8	1.1	0.3	½:1	½:1	1.0
36"x 22"	"	1.3	1.0	2.2	0.5	"	"	"
43"x 27"	"	1.7	1.2	3.7	1.0	"	"	"
50"x 31"	"	1.9	1.4	4.9	1.5	"	"	"
58"x 36"	"	2.1	1.7	6.3	2.1	"	"	"
65"x 40"	"	2.5	2.0	7.5	2.6	"	"	"
72"x 44"	"	2.9	2.4	8.6	3.1	"	"	"

CATTLE PASS

72"	ALTERNATE	12.4	9.9	18.3	7.1	"	"	2.68

GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, and the applicable Special Provisions.

CONCRETE MASONRY SUBSTITUTE

All items shown hereon may be constructed of Class "A" Concrete in which case all sizes and dimensions shown shall obtain. Concrete masonry substitute work shall conform to the pertinent requirements of the Standard Specifications.

MORTAR RUBBLE MASONRY OR RIPRAP FOR CULVERT & CATTLE PASS ENDWALLS

STATE HIGHWAY COMMISSION OF WISCONSIN

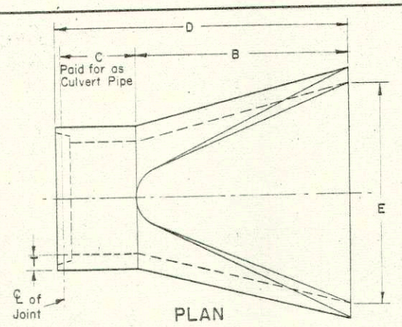
RECOMMENDED FOR APPROVAL:

2-5-63 — DATE — J. J. Pilt — ENGINEER OF DESIGN

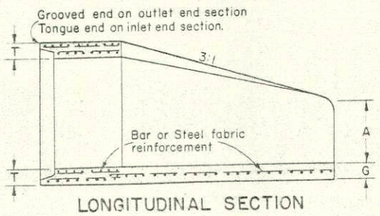
APPROVED:

2-16-63 — P. C. Rentzepis — STATE HIGHWAY ENGINEER

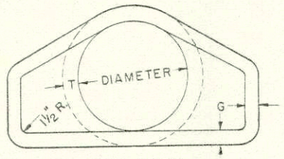
PLATE NO. 6-2.4.3



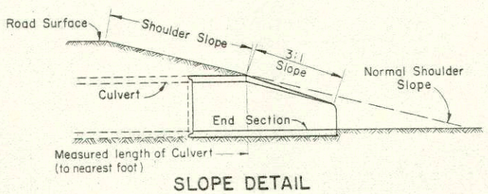
PLAN



LONGITUDINAL SECTION



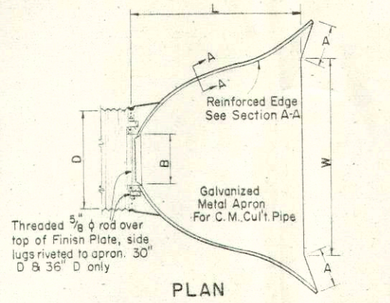
END VIEW



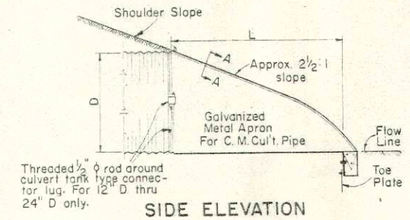
SLOPE DETAIL

DIA.	APPROX WEIGHT/ SECTION	SLOPE	T	A	B	C	D	E	G
18"	990	3 to 1	2½"	9"	27"	46"	73"	36"	2½"
21"	1280	3 to 1	2¾"	9"	36"	37½"	73½"	42"	2¾"
24"	1520	3 to 1	3"	9½"	43½"	30"	73½"	48"	3"
27"	1930	3 to 1	3¼"	10½"	49½"	24"	73½"	54"	3¼"
30"	2190	3 to 1	3½"	12"	54"	19¾"	73¾"	60"	3½"
36"	4100	3 to 1	4"	15"	63"	34¾"	97¾"	72"	4"
42"	5380	3 to 1	4½"	21"	63"	35"	98"	78"	4½"
48"	6550	3 to 1	5"	24"	72"	26"	98"	84"	5"

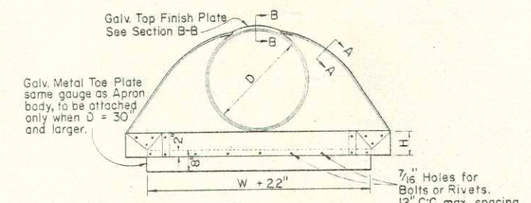
REINFORCED CONCRETE APRON ENDWALLS



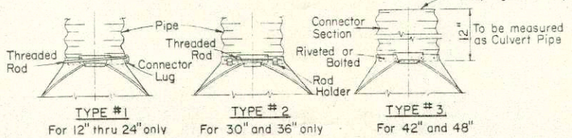
PLAN



SIDE ELEVATION



END VIEW

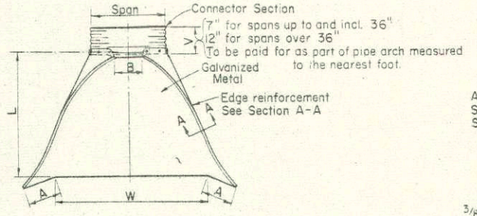


CONNECTION DETAILS

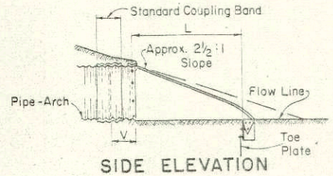
D Pipe Diam.	Metal Gage	Dimensions A ±1"	B Max.	H ±1"	L ±1½"	W ±2"	Fabrication Remarks
18"	16	7"	9"	6"	31"	36"	1 Piece
21"	16	8¼"	11"	6"	36"	42"	"
24"	14	9½"	12"	6"	42"	48"	"
30"	14	12"	15"	7½"	52½"	60"	2 Pcs. ℄ Splice
36"	12	14"	18"	9"	63"	72"	" "
42"	12	16"	21"	10½"	73½"	84"	" "
48"	12	18"	27"	12"	84"	90"	" "

Note: All splices to be lap riveted or bolted.

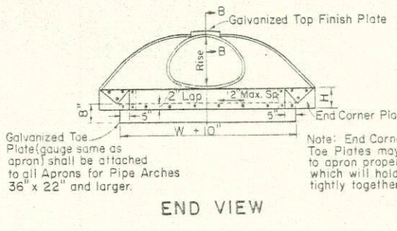
METAL APRON ENDWALLS



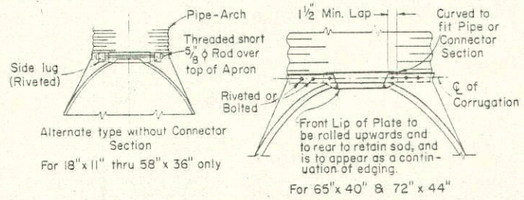
PLAN
showing alternate type with connector section



SIDE ELEVATION



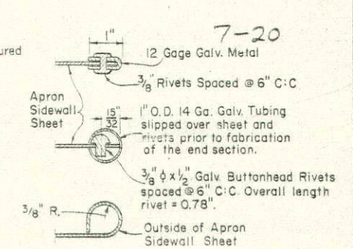
END VIEW



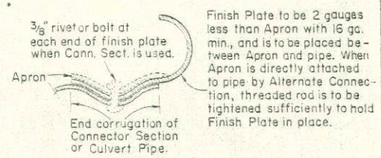
CONNECTION DETAILS

Pipe-Arch Dimensions Span	Rise	Gauge	Dimensions A ±1"	B Max.	H ±1"	L ±1½"	W ±2"	Fabrication Remarks
18"	11"	16	4½"	9"	6"	19"	30"	1 Piece
22"	13"	16	5¼"	10"	6"	23"	36"	"
25"	16"	16	6¼"	11½"	6"	28"	42"	"
29"	18"	14	7"	14"	6"	31½"	48"	"
36"	22"	14	8¾"	16"	6"	38½"	60"	2 Pieces, ℄ Splice
43"	27"	12	10¾"	17½"	7⅝"	47"	75"	" "
50"	31"	12	12½"	20"	9⅛"	54"	85"	" "
58"	36"	12	14"	26"	10⅝"	63"	96"	" "
65"	40"	12	15¾"	23	10⅜"	70"	112"	3 Pieces, 2 Splices equal distance from ℄
72"	44"	10	17¼"	24"	12⅛"	77"	128"	3 Pieces, 2 Splices equal distance from ℄

Note: All splices to be lap riveted or bolted.



SECTION A-A



SECTION B-B

TOP FINISH PLATE DETAIL

GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Reinforced concrete apron endwalls shall conform to the pertinent requirements of the Standard AASHO Designation: M170, Class II (Wall B).

Metal apron endwalls shall conform to the pertinent requirements of the Standard AASHO Designation: M36.

NOTE:

Variations of the dimensions and designs shown hereon will be permitted providing equivalent capacity and structural integrity are attained, and prior approval of the Engineer is obtained.

Reinf. concrete apron endwalls shall be used with concrete pipe culvert installations, and metal apron endwalls shall be used with corr. metal pipe culvert installations.

Measurement & Payment

Apron Endwalls for Culvert Pipe or Apron Endwalls for Pipe Arches will be measured and paid for as units complete in place, at the contract unit price per each, which price shall be full compensation for all labor, tools, equipment, materials, and incidentals necessary to complete the work.

APRON ENDWALLS FOR CULVERT PIPE

APRON ENDWALLS FOR PIPE ARCH

APRON ENDWALLS FOR CULVERT PIPE & PIPE ARCH

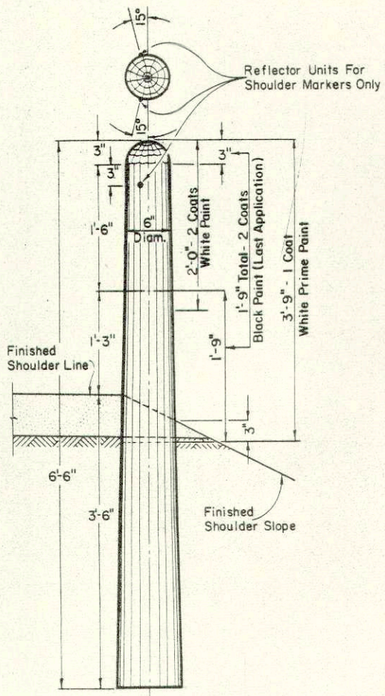
STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:
DATE: 2-5-63 — ENGINEER OF DESIGN

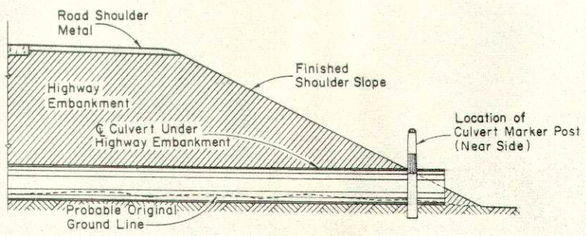
APPROVED:
DATE: 2/6/63 — STATE HIGHWAY ENGINEER

PLATE NO. 6-2.62

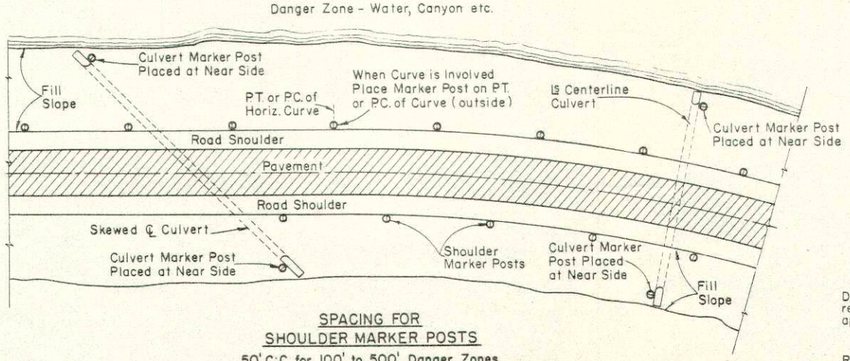
8-20



MARKER POST FOR
ROAD SHOULDERS AND CULVERTS

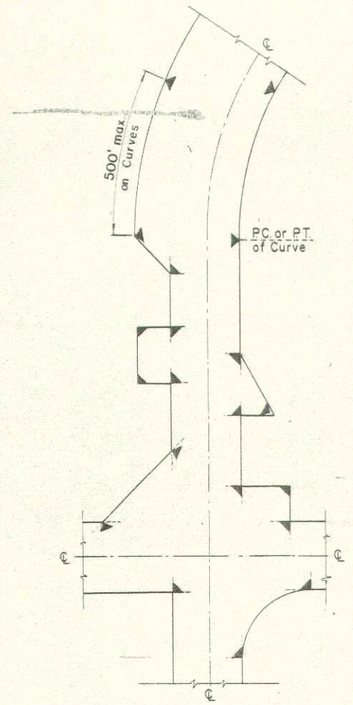


SECTION
SHOWING RELATIVE LOCATION OF
MARKER POST FOR CULVERTS

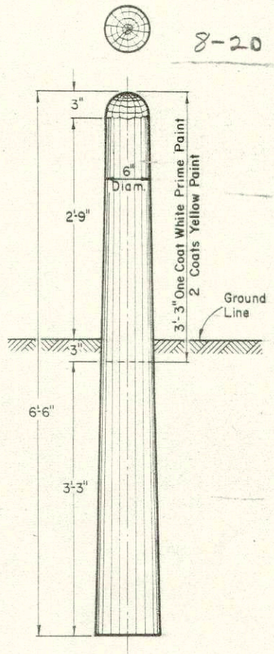


SPACING FOR
SHOULDER MARKER POSTS
50' C:C for 100' to 500' Danger Zones
100 C:C for Over 500' Danger Zones

LOCATION DIAGRAM
SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS
AND CULVERT MARKER POSTS



LOCATION DIAGRAM
SHOWING TYPICAL LOCATIONS OF
MARKER POSTS FOR RIGHT OF WAY



MARKER
POST
FOR
RIGHT OF WAY

MARKER POSTS FOR ROAD SHOULDERS AND CULVERTS

MARKER POST FOR RIGHT OF WAY

GENERAL NOTES

Details of Construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

MARKER POSTS FOR RIGHT OF WAY

Right of Way Marker Posts shall be erected in advance of Grading Operations. Posts shall be placed at the outer limits of the Highway Right of Way, but entirely within the Right of Way and shall be so placed that the outer edge of the posts shall be tangent to the Right of Way line or lines extended. The exact location of all Right of Way Posts will be staked in the field by the Engineer.

REFLECTOR UNITS

Reflector Units shall have plastic crystal lens 7/8" in diameter. Unit assembly shall be a minimum of 7/8" in length. Reflector Units shall be furnished with flared expanding metal clips for wood mounting. Units shall be mounted in tightest fit possible and securely stayed in posts. Reflector Units shall be installed in Road Shoulder Marker Posts only.

MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY

STATE HIGHWAY COMMISSION OF WISCONSIN

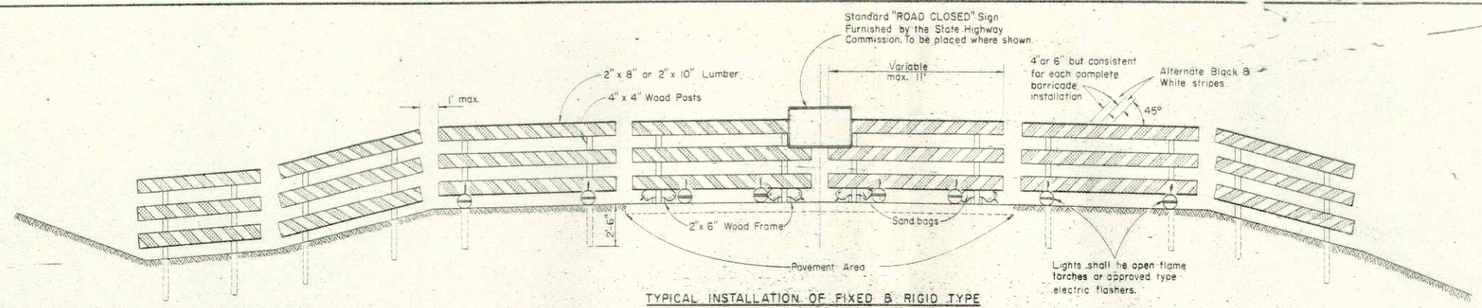
RECOMMENDED FOR APPROVAL

2-5-63 (DATE) — J. S. Pitts, ENGINEER OF DESIGN

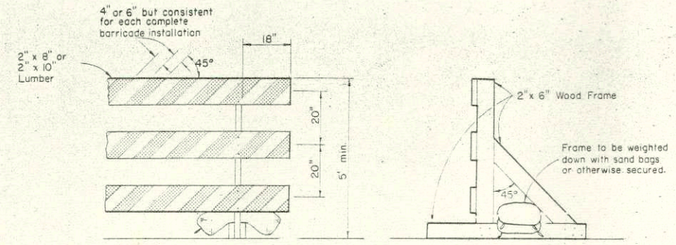
APPROVED:

2/6/63 (DATE) — E. L. Rettinger, STATE HIGHWAY ENGINEER

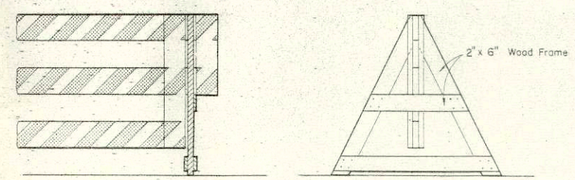
PLATE NO. 7-1.3.4



TYPICAL INSTALLATION OF FIXED & RIGID TYPE

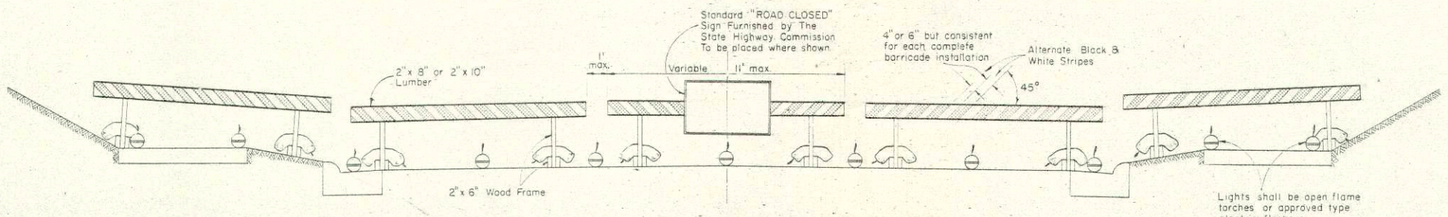


ALTERNATE TYPE INSTALLATION (RIGID)

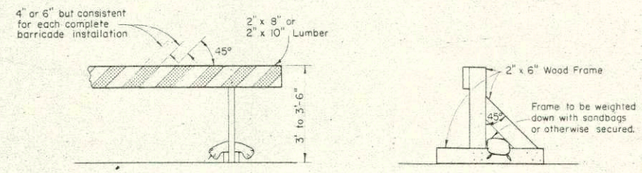


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

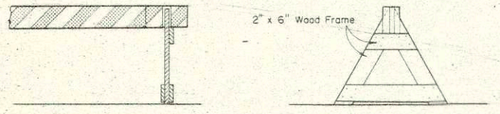
CLASS I BARRICADE



TYPICAL INSTALLATION OF RIGID TYPE



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADE

9-20

GENERAL NOTES:

The Contractor shall construct, place and maintain barricades as shown on this drawing and as required by the Standard Specifications for the duration of the project at all points of highway closure. Barricades shall be painted as shown hereon and structurally maintained for maximum visibility at all times, for the duration of the respective project.

CLASS I BARRICADE

Shall be used at points of closure where road is closed to traffic. Gates or movable sections of barricade shall be provided when necessary, for access of equipment or other authorized vehicles only.

CLASS II BARRICADE

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.

LUMBER & 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. The fabrication of the barricade shall be in accord with good pertinent woodworking practices.

PAINTING

Barricades shall be painted as shown hereon in alternate black and white stripes. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be painted a prime coat of good grade wood primer, followed by two coats of white "Codit Reflective Liquid" (Minnesota Mining Co.) or equivalent, or reflective sheeting wide angle, flat top "Scotchlite" brand material (Minnesota Mining Co.) or equivalent.

DIRECTION OF DIAGONAL STRIPES

Where a barricade extends entirely across the roadway and 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.

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.

NOTE:

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

NOTE:

All lumber or timber dimensions shown hereon are nominal.

CONSTRUCTION BARRICADE

STATE HIGHWAY COMMISSION OF WISCONSIN

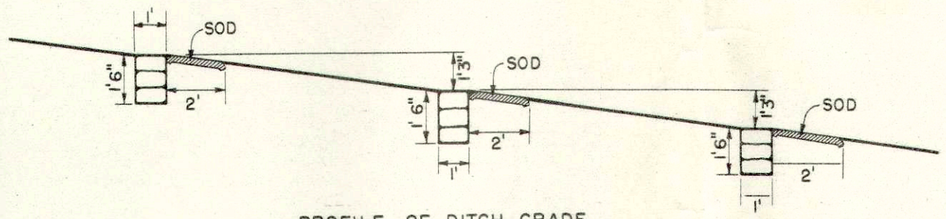
RECOMMENDED FOR APPROVAL:

2-5-63 — DATE — J.D. Pelt — ENGINEER OF DESIGN

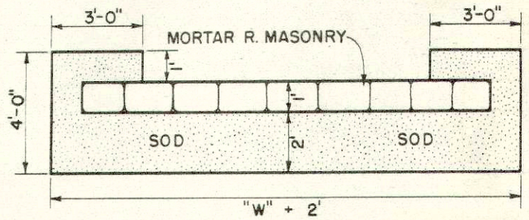
APPROVED:

2/6/63 — DATE — E.G. Rustigan — STATE HIGHWAY ENGINEER

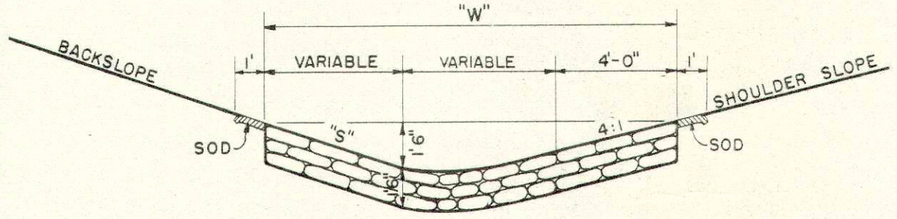
PLATE NO. 7-4.1.4



PROFILE OF DITCH GRADE



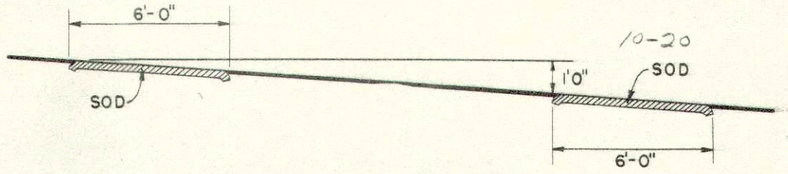
PLAN VIEW SHOWING SOD



SECTION

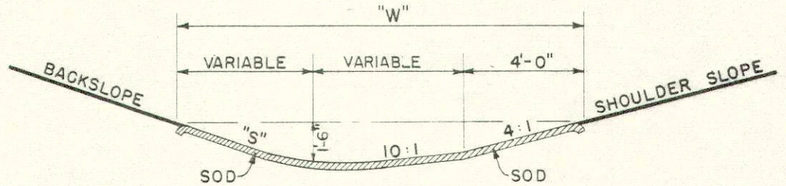
MORTAR RUBBLE MASONRY

QUANTITIES			
"S"	"W"	SOD SQ. YD.	EACH CU. YD.
2:1	12'	4.0	0.67
3:1	13.5'	4.33	0.75
4:1	15'	4.67	0.83



PROFILE OF DITCH GRADE

NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



SECTION

SOD DITCH CHECKS

QUANTITIES		
"S"	"W"	EACH SQ. YD.
2:1	12'	8
3:1	13.5'	9
4:1	15'	10

CONSTRUCTION NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DITCH CHECKS
MORTAR RUBBLE MASONRY & SOD

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL:

Frank Crane
DESIGN ENGINEER

DATE:

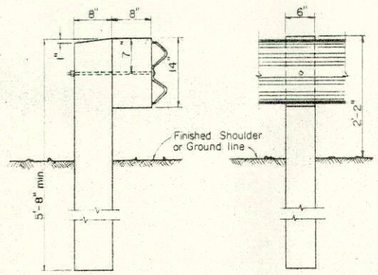
CONSTRUCTION ENGINEER

APPROVED:

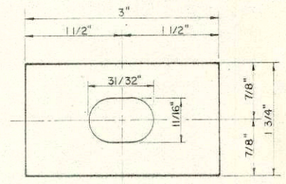
STATE HIGHWAY ENGINEER

DRAWN DIV. 9

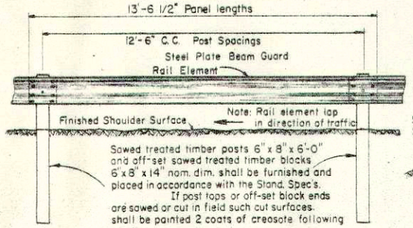
8-1.3.1



DETAIL OF POST & OFF-SET BLOCK

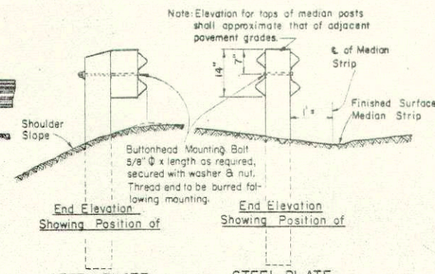


8 GAGE GALVANIZED - MOUNTING BOLT WASHER



FRONT (Traffic Side) ELEVATION

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM (MEDIAN) GUARD



GENERAL NOTES 11-20

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

The Steel Plate Beam Guard or (Median) Guard shall consist of steel plate made of open hearth or electric furnace steel.

Plates shall be blanked to proper shape, fabricated and ready for assembly when received in the field. The plates shall be true to plan dimensions and of uniform section. Warped or deformed plates will be rejected. The edges of the plates shall be rolled or rounded so that they present no sharp edges. All connections and splices shall be formed with flat round headed bolts, or similar detail so that no appreciable projection will be presented on the road side of the guard. The rail element shall be spliced by lapping in the direction of traffic or by butt joint with splice plate. Plate ends in lap splices or plate ends and splice plate in butt splices shall make contact throughout the entire area of the splice.

TESTS

The elongation of a 2 inch specimen of the steel plate used in the rail element shall be not less than 12 percent tested in tension. The minimum tensile strength of the rail element shall, when tested in conjuntion with splices and end connections, be 80,000 lbs. The rail element when loaded as a simple beam, freely supported at each end on 12'-0 centers, shall support a concentrated load at span center through a flat surface 3 inches long, in accord with the following –

BEAM ELEMENT

Traffic Face up		Traffic Face Down	
Load	Maximum Deflection	Load	Maximum Deflection
1500 lb.	2.0 in.	1200 lb.	2.0 in.
2000 lb.	3.0 in.	1600 lb	3.0 in

GALVANIZED

The steel plate beam element and terminal sections shall be furnished galvanized. The spelter coating of the base metal sheets shall be in accordance with A.A.S.H.O. Designation: M 36

The beam element may be galvanized before or after fabrication.

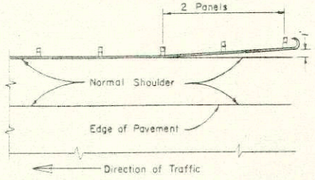
Bolts, nuts, and washers shall be furnished galvanized in accordance with A.S.T.M. Designation: A153, Class C.

CIRCULAR STEEL PLATE ELEMENT

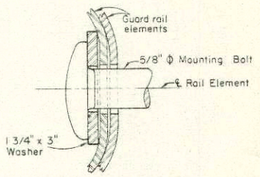
Steel plate beam elements for beam guard or (median) guard for radii of 20 ft. to 150 ft. shall be shop-curved. Steel plate beam elements shall be bent to true circular curvature, void of kinks. Kinks shall be cause for rejection. Steel plate beam elements shall have a minimum bending radius of 20 feet.

MEASUREMENT & PAYMENT

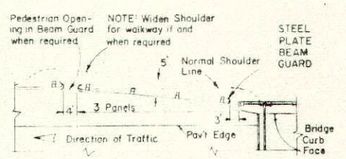
The items of Steel Plate Beam Guard and Steel Plate Beam (Median) Guard shall be measured and paid for at the contract unit price per linear foot, measured in place by length in linear feet from end to end - out to out of terminal sections, which price shall be full compensation for furnishing and placing all materials and performing all work to completion in accordance with the Stand. Spec's. the applicable Plans and Special Provisions.



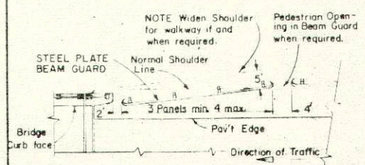
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD INTERMEDIATE SECTIONS



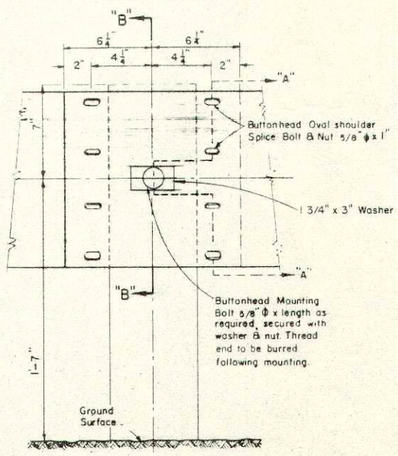
SECTION "B-B"



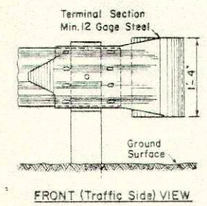
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE EXITS



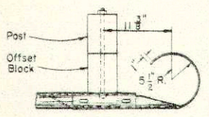
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE APPROACHES



RAIL ELEMENT SPLICING & POST MOUNTING DETAILS

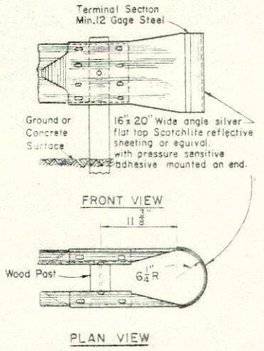


FRONT (Traffic Side) VIEW



PLAN VIEW

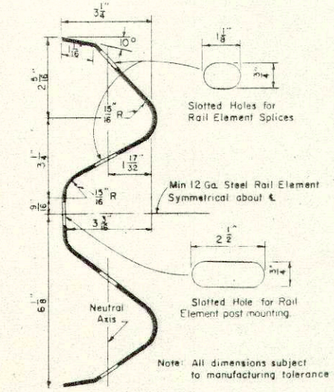
TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM GUARD



FRONT VIEW

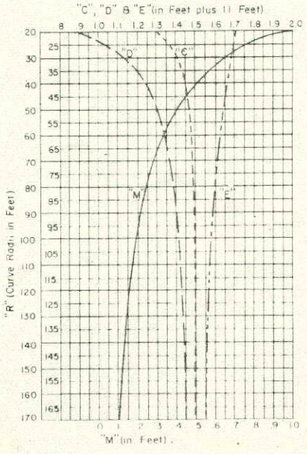
PLAN VIEW

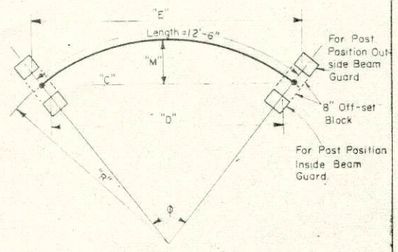
TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM (MEDIAN) GUARD



SECTION "A-A"
RAIL ELEMENT SECTION
(Min 12 GAGE STEEL)

CURVE DATA
Middle Ordinates for Beam Curving & Chord Lengths for Post Spacings.





STEEL PLATE BEAM GUARD & STEEL PLATE BEAM (MEDIAN) GUARD

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

2-5-63 DATE — J. S. Pilt ENGINEER OF DESIGN

APPROVED:

2/6/63 DATE — E. C. Rostinger STATE HIGHWAY ENGINEER

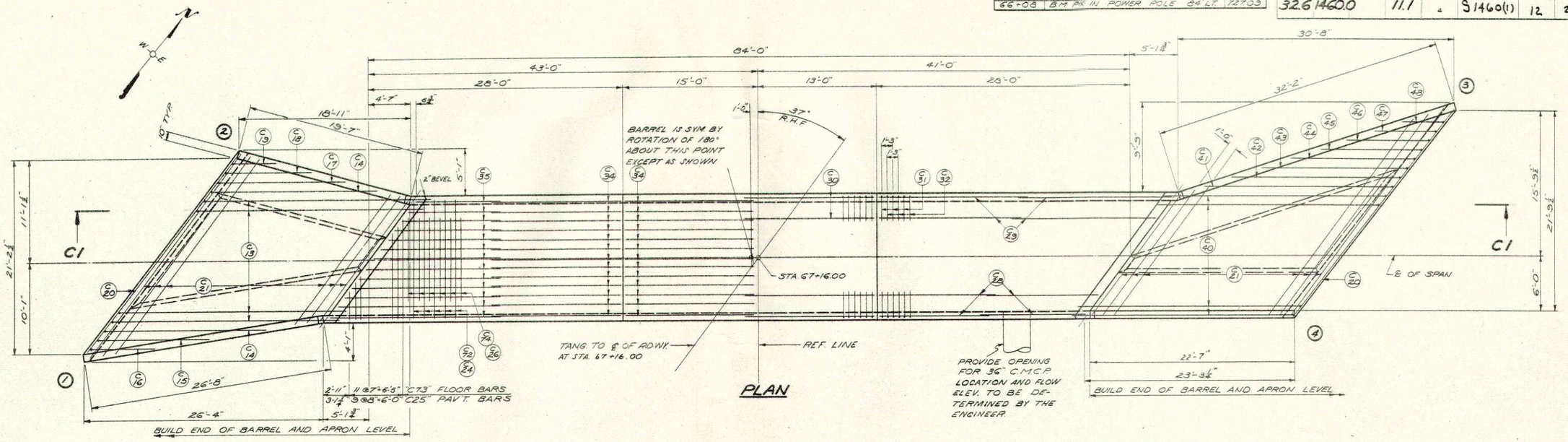
PLATE NO. 7-2.4.10

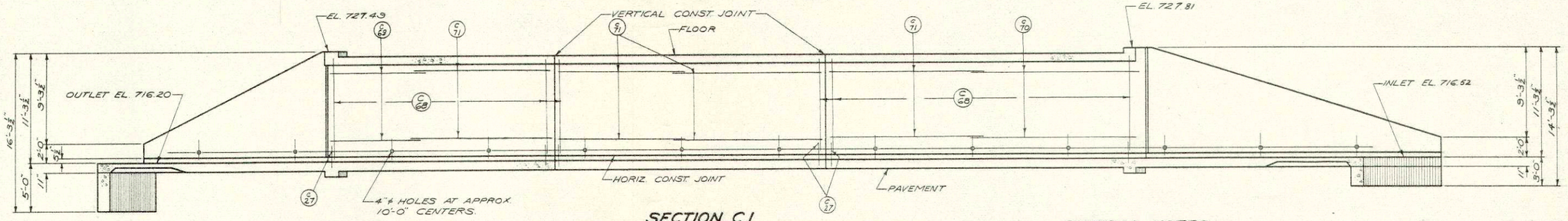
FORM E-B-11-52

BENCH MARK # 2

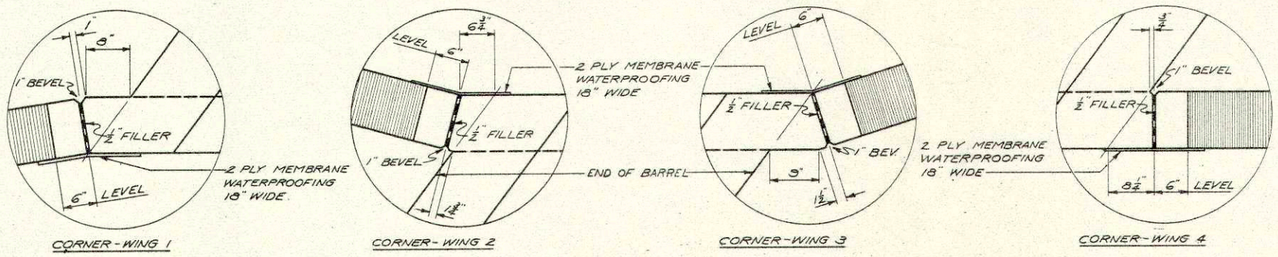
STATION	DESCRIPTION	ELEV.
66+08	B.M. PK IN POWER POLE 84' LT.	727.03

COUNTY & HIGHWAY	ROUTE & SECTION	CLASS & AGREEMENT STATE	CLASS & AGREEMENT FEDERAL	B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
32.61460.0		11.1		4	S1460(1)	12	20





SECTION C1



DESIGNED FOR 4'-0" OF FILL.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
ALL CONCRETE MASONRY SHALL BE GRADE "AA" (f'_c = 1400 P.S.I.)
BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
BEVEL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SPECIFIED.
INLET AND DISCHARGE ENDS SHALL BE RIPRAPPED AS SHOWN ON X 26531.
UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" SHALL BE THE FLOW LINE OF THE STRUCTURE.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

EXCAVATION FOR STRUCTURES	110 C.Y.
CONCRETE MASONRY	180 C.Y.
BAR STEEL REINFORCEMENT	25,800 LBS.
RIPRAP	250 C.Y.

NON-BID ITEMS

2 PLY MEMBRANE WATERPROOFING	74 S.F.
FILLER	½" SIZE

LIST OF DRAWINGS

1. DETAILS — X 26529
2. DETAILS — X 26530
3. DETAILS — X 26531

REVISED

STATE HIGHWAY COMMISSION OF WISCONSIN

DETAILS

CO. LA CROSSE — CITY VIL. TN. HAMILTON — STA. 67+16.00
SECTION 23 — TOWN 17 N. — RANGE 6 W.
DESIGN SPEC. A.A.S.H.O. 61 — LOADING H 15 — CONST. SPEC. 1963
DATE 12-28-62 — DESIGN IBM — DRAWN BW — CKD. BS

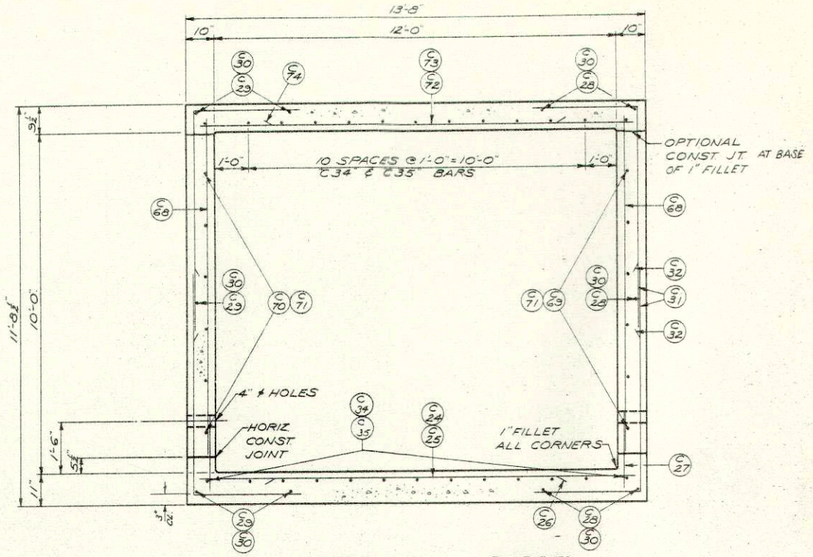
RECOMMENDED W. B. Schultz ENGINEER OF BRIDGES
APPROVED: E. L. Peterson STATE HIGHWAY ENGINEER

STRUCTURE C-32-27 — SHEET 1 OF 3

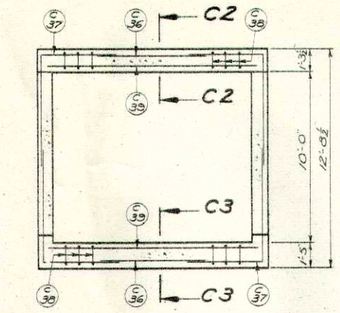
X 26529

FORM E-8-12-62

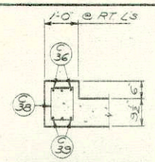
B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S1460 (1)	13	20



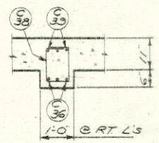
SECTION THRU BARREL
AT RIGHT ANGLES



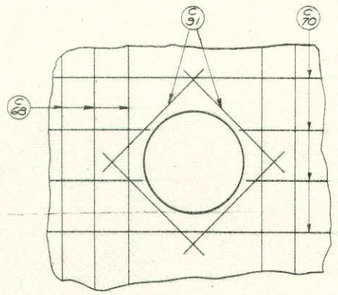
SECTION THRU HEADERS



SECTION C2

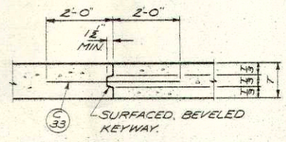


SECTION C3

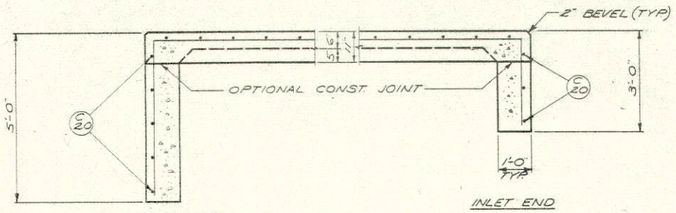


DETAIL AT OPENING FOR 36" C.M.C.P.

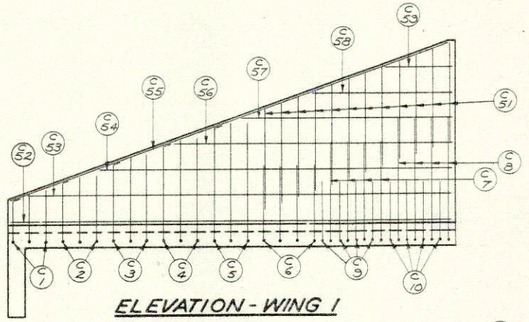
NOTE: CUT OR BEND ALL STEEL THAT INTERFERES WITH OPENING FOR 36" C.M.C.P.



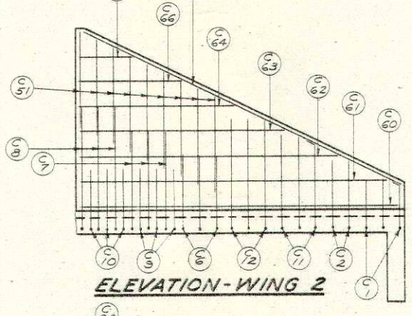
VERT. CONST. JOINT



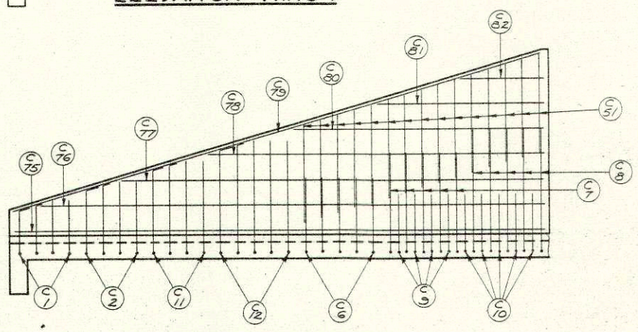
SECTION THRU CUT-OFF WALLS
TAKEN AT RIGHT ANGLES



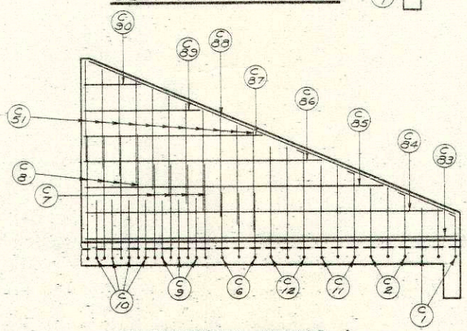
ELEVATION - WING 1



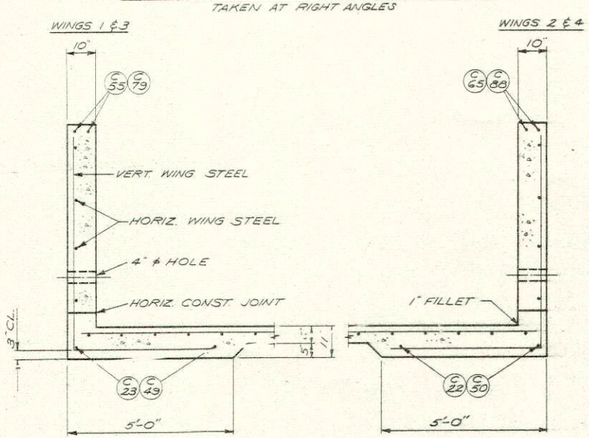
ELEVATION - WING 2



ELEVATION - WING 3



ELEVATION - WING 4



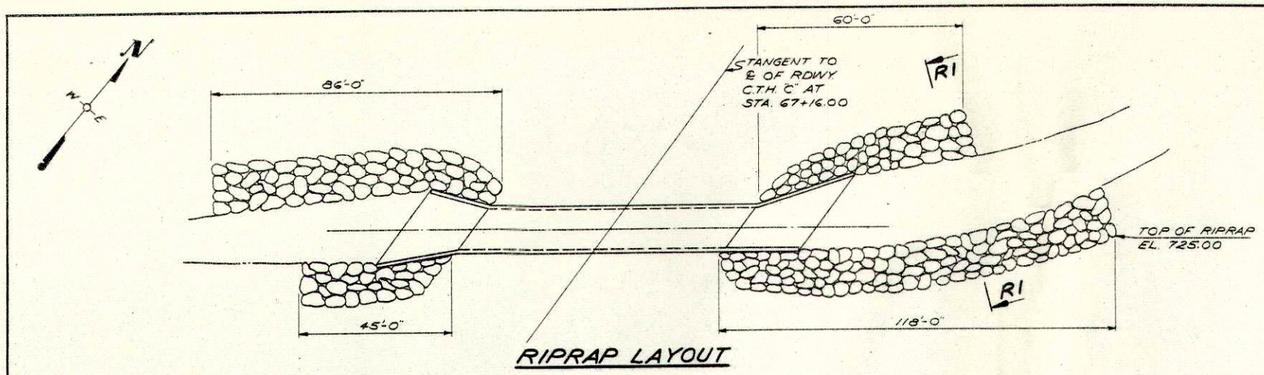
SECTION THRU WINGS
TAKEN AT RIGHT ANGLES

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	DETAILS
	DESIGN SPEC. A.A.S.H.O. '61 LOADING H15 CONST. SPEC. 1963
	DATE 12-28-62 DESIGN IBM DRAWN BW CKD.
	STRUCTURE C-32-27 SHEET 2 OF 3

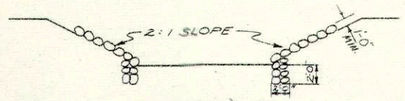
X 26530

FORM E-8-12-62

B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S1460(1)	14	20



RIPRAP LAYOUT



SECTION R1

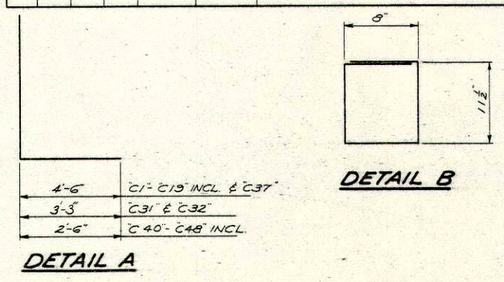
BILL OF BARS

25,800 #'s

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

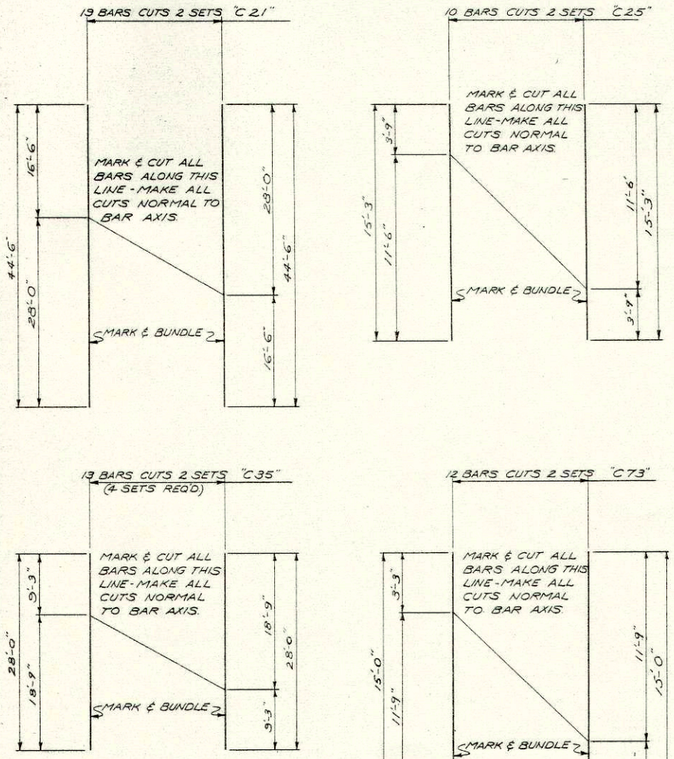
POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET
PAVEMENT & APRONS	C1	13	4	7-6	1-0	WINGS	A
	C2	12	4	8-6	1-0	"	A
	C3	3	4	3-6	1-0	WING 1	A
	C4	3	4	10-6	1-0	" "	A
	C5	3	4	11-9	1-0	" "	A
	C6	15	5	7-9	1-0	WINGS	A
	C7	16	6	9-6	1-0	"	A
	C8	16	6	11-0	1-0	"	A
	C9	14	4	7-0	1-0	"	A
	C10	16	6	8-9	1-0	"	A
	C11	10	4	10-0	1-0	WINGS 2, 3 & 4	A
	C12	11	4	11-3	1-0	" " " "	A
	C13	14	4	28-6	1-0	APRON (WEST)	A
	C14	2	4	23-3	1-0	"	A
	C15	1	4	17-9	1-0	"	A
	C16	1	4	12-0	1-0	"	A
	C17	1	4	18-9	1-0	"	A
	C18	1	4	14-3	1-0	"	A
	C19	1	4	9-9	1-0	APRON "	A
	C20	8	4	27-6	1-0	CUT-OFF WALLS	
	C21	19	4	44-6	1-0	APRONS	
	C22	2	4	19-0	SHOWN	APRON @ WING 2	
	C23	2	4	26-0	SHOWN	" " 1	
	C24	56	8	13-0	1-4	PAVEMENT	
	C25	10	8	15-3	8	"	
	C26	56	8	9-3	1-4	"	
	C27	168	4	2-0	1-0	" AND SIDES	
	C28	8	4	12-0	SHOWN	"	
	C29	8	4	16-9	SHOWN	"	
	C30	4	4	27-6	SHOWN	"	
	C31	134	7	9-9	1-3	" AND SIDES	A
	C32	132	7	8-0	1-3	" " "	A
	C33	26	5	4-0	1-0	VERTICAL CONST. JOINTS	
	C34	52	4	14-6	1-0	PAVEMENT - LONG.	
	C35	13	4	28-0	1-0	"	
	C36	6	4	9-6	SHOWN	HEADER	
	C37	12	7	11-6	SHOWN	"	A
	C38	22	4	4-0	1-6	" STIRRUPS	B
	C39	6	7	16-6	SHOWN	"	
	C40	14	4	27-0	1-0	APRON (EAST)	A
	C41	1	4	23-9	1-0	"	A
	C42	1	4	21-6	1-0	"	A
	C43	1	4	19-0	1-0	"	A
	C44	1	4	16-9	1-0	"	A
	C45	1	4	14-6	1-0	"	A
	C46	1	4	12-0	1-0	"	A
	C47	1	4	9-9	1-0	"	A
	C48	1	4	7-6	1-0	"	A
	C49	2	4	31-6	SHOWN	" WING-3	
	C50	2	4	22-0	SHOWN	" WING-4	
SIDES & FLOOR	C28	12	4	12-0	SHOWN	SIDES & FLOOR	
	C29	12	4	16-9	SHOWN	" " "	
	C30	6	4	27-6	SHOWN	" " "	
	C31	134	7	9-9	1-3	" " "	A
	C32	132	7	8-0	1-3	" " "	A
	C33	72	5	4-0	1-0	VERTICAL CONST. JOINT	
	C34	52	4	14-6	1-0	FLOOR	
	C35	13	4	28-0	1-0	"	
	C36	6	4	9-6	SHOWN	HEADER	
	C37	12	7	11-6	SHOWN	"	A
	C38	22	4	4-0	1-6	" STIRRUPS	B
	C39	6	7	16-6	SHOWN	"	

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET
SIDES & FLOOR	C51	97	4	6-9	1-0	WINGS - VERTICAL	
	C52	1	4	26-3	1-6	WING 1 - HORIZ.	
	C53	1	4	25-3	1-6	" " "	
	C54	1	4	21-0	1-6	" " "	
	C55	2	5	27-6	SHOWN	" " "	
	C56	1	4	16-9	1-6	" " - HORIZ.	
	C57	1	4	12-6	1-6	" " "	
	C58	1	4	8-3	1-6	" " "	
	C59	1	4	4-3	1-6	" " "	
	C60	1	4	19-3	1-6	" 2 "	
	C61	1	4	18-6	1-6	" " "	
	C62	1	4	15-3	1-6	" " "	
	C63	1	4	12-3	1-6	" " "	
	C64	1	4	9-3	1-6	" " "	
	C65	2	5	21-0	SHOWN	" " "	
	C66	1	4	6-0	1-6	" " - HORIZ.	
	C67	1	4	3-0	1-6	" " "	
	C68	168	4	10-0	1-0	SIDES - VERTICAL	
	C69	12	4	9-9	1-6	" - HORIZ.	
	C70	12	4	18-9	1-6	" "	
	C71	48	4	14-3	1-6	" "	
	C72	64	7	13-0	1-2	FLOOR	
	C73	12	7	13-0	7	"	
	C74	64	7	8-9	1-2	"	
	C75	1	4	31-9	1-6	WING 3 - HORIZ.	
	C76	1	4	30-3	1-6	" " "	
	C77	1	4	25-0	1-6	" " "	
	C78	1	4	20-0	1-6	" " "	
	C79	2	5	32-9	SHOWN	" " "	
	C80	1	4	15-0	1-6	" " - HORIZ.	
	C81	1	4	10-0	1-6	" " "	
	C82	1	4	4-9	1-6	" " "	
	C83	1	4	22-3	1-6	" 4 "	
	C84	1	4	21-3	1-6	" " "	
	C85	1	4	17-9	1-6	" " "	
	C86	1	4	14-3	1-6	" " "	
	C87	1	4	10-6	1-6	" " "	
	C88	2	5	23-9	SHOWN	" " "	
	C89	1	4	7-0	1-6	" " - HORIZ.	
	C90	1	4	3-6	1-6	" " "	
	C91	8	5	4-6	SHOWN	@ C.M.C.P. OPENING	



DETAIL A

DETAIL B



CUTTING DIAGRAMS

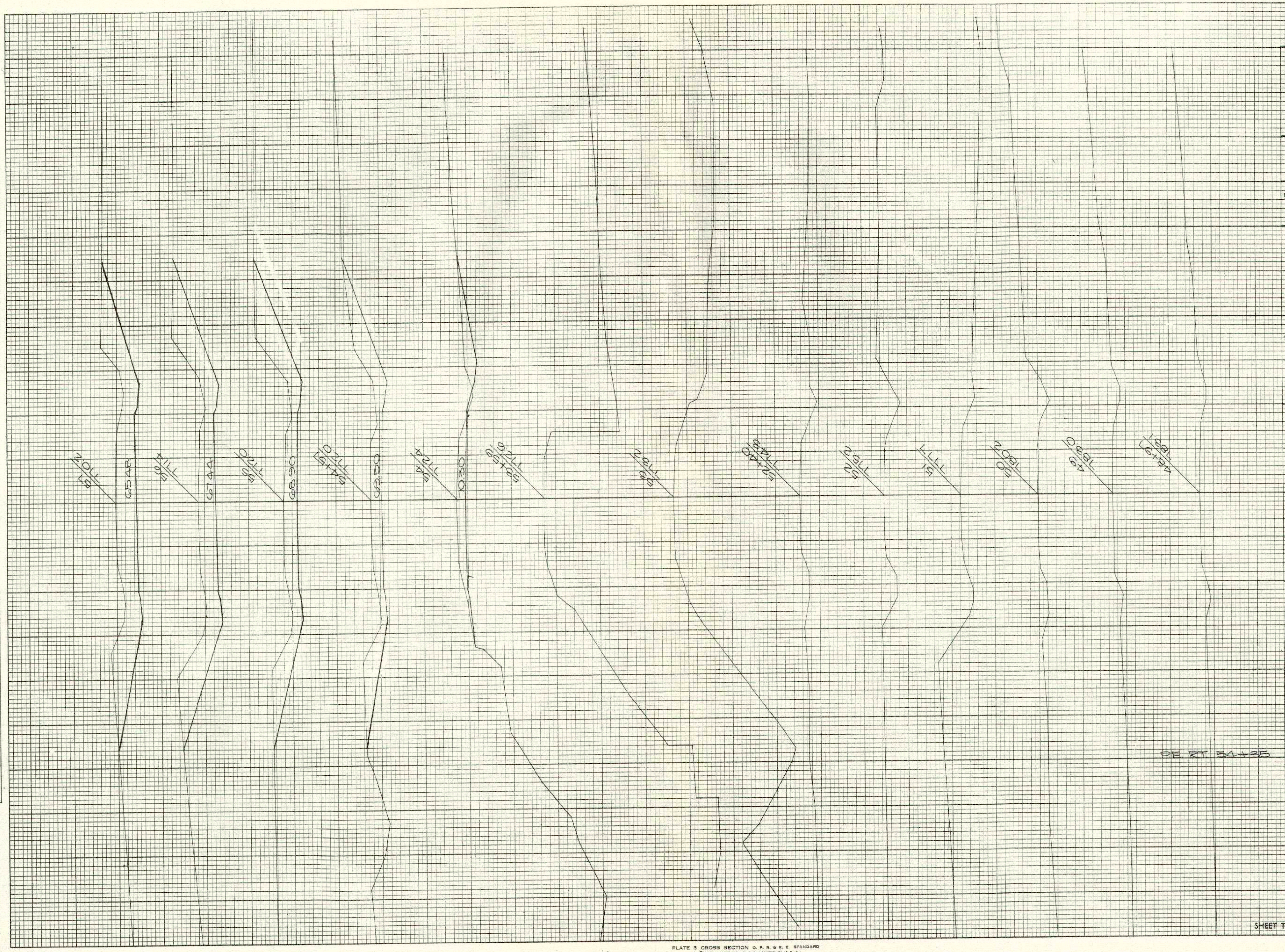
REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	DETAILS
	DESIGN SPEC. A.A.S.H.O. '61 | LOADING H15 | CONST. SPEC. 1963
	DATE 12-28-62 | DESIGN I B M | DRAWN BW | CKD. EZ
STRUCTURE C-32-27	SHEET 3 OF 3

X26531

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S1460(1)	15	20

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED	D.E.K.	5-62
	PLOTTED	W.H.T.	6-62
NOTE BOOK	TEMPLATE	W.H.T.	8-62
	AREAS	W.H.T.	8-62
NO. L.L.	AREAS CHECKED	R.W.S.	9-62

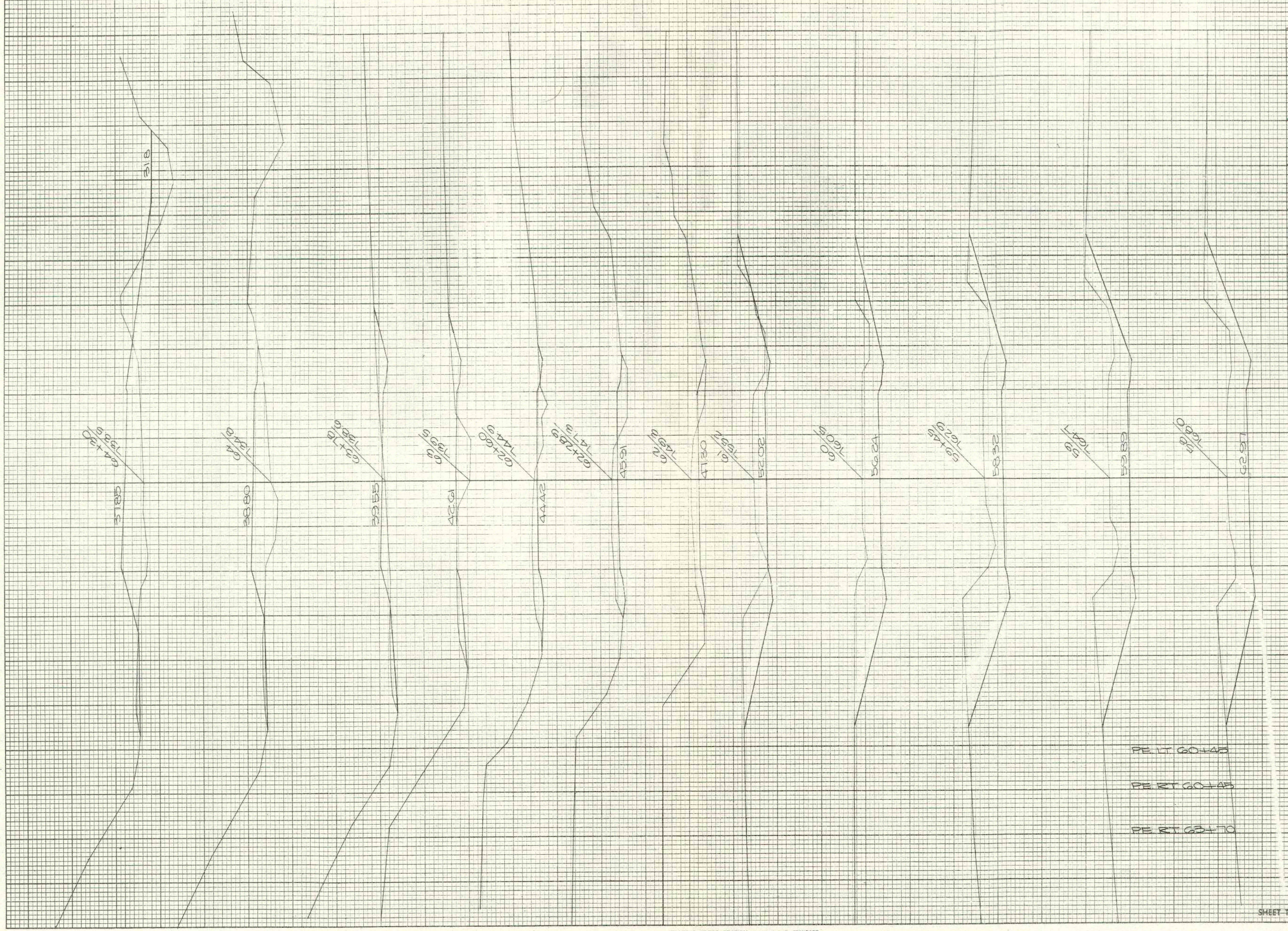


STATION	DISTANCE	YARDAGE EXCAVATION UNCL	FILL
53+59			
		76	
54			
		385	
+57			
		470	
55			
		1380	
56			
		1546	
57			
PE RT 54+35		0	10
SHEET TOTAL		3857	10

BRUNING NO. 604

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER – MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY, INC

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S1460(1)	16	20



STATION	DISTANCE	YARDAGE EXCAVATION UNCL			FILL
57					
		1657			0
58					
		1722			0
59					
		748			0
+44					
		854			0
60					
		1167			0
61					
		566			26
62					
		69			30
+89					
		69			35
+60					
		78			52
63					
		153			126
+78					
		30			94
64					
		37			270
+30					
PE LT 60+45		20			30
PE RT 60+45		10			30
PE RT 63+70		0			40
SHEET TOTAL		7180			733

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED	D.E.K.	5-62
	PLOTTED	W.H.T.	6-62
	TEMPLATE	W.H.T.	8-62
	AREAS	R.W.S.	9-62
NO. L.L.	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	
	PLOTTED		DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED	WH	8-63
NOTE BOOK	TEMPLATE	WH	8-63
NO. 66	AREAS CHECKED	WH	8-63

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S1460(1)	17	20

NOT FOR YARDAGE

NOT FOR YARDAGE

STATION	DISTANCE	YARDAGE EXCAVATION ROCK	YARDAGE FILL
BE LT 63+09		0	120
DAM RT 63+73		0	115
		SHEET TOTAL 415	6958

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CHARLES BRUNING COMPANY, INC

BRUNING NO. 604

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1460(1)	18	20

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TRIPLICATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO. 1-L
SURVEYED
PLOTTED
TRIPLICATE
AREAS
AREAS CHECKED
BY E.H.H.S.
DATE 8/30/62 9/3/62 9/6/62

FOR YARDAGE

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION FILL
67+00			
	50	0	80
67+50			
	50	0	630
68+00			
	50	195	1128
68+50			
	50	0	576
69+00			
	50	0	1976
69+50			
	50	0	1144
70+00			
	50	0	250
70+50			
	50	0	7
71+00			
	50	0	0
71+50			
PE LT 69+86		0	50
PE RT 71+90		10	30
SHEET TOTAL		857	6815

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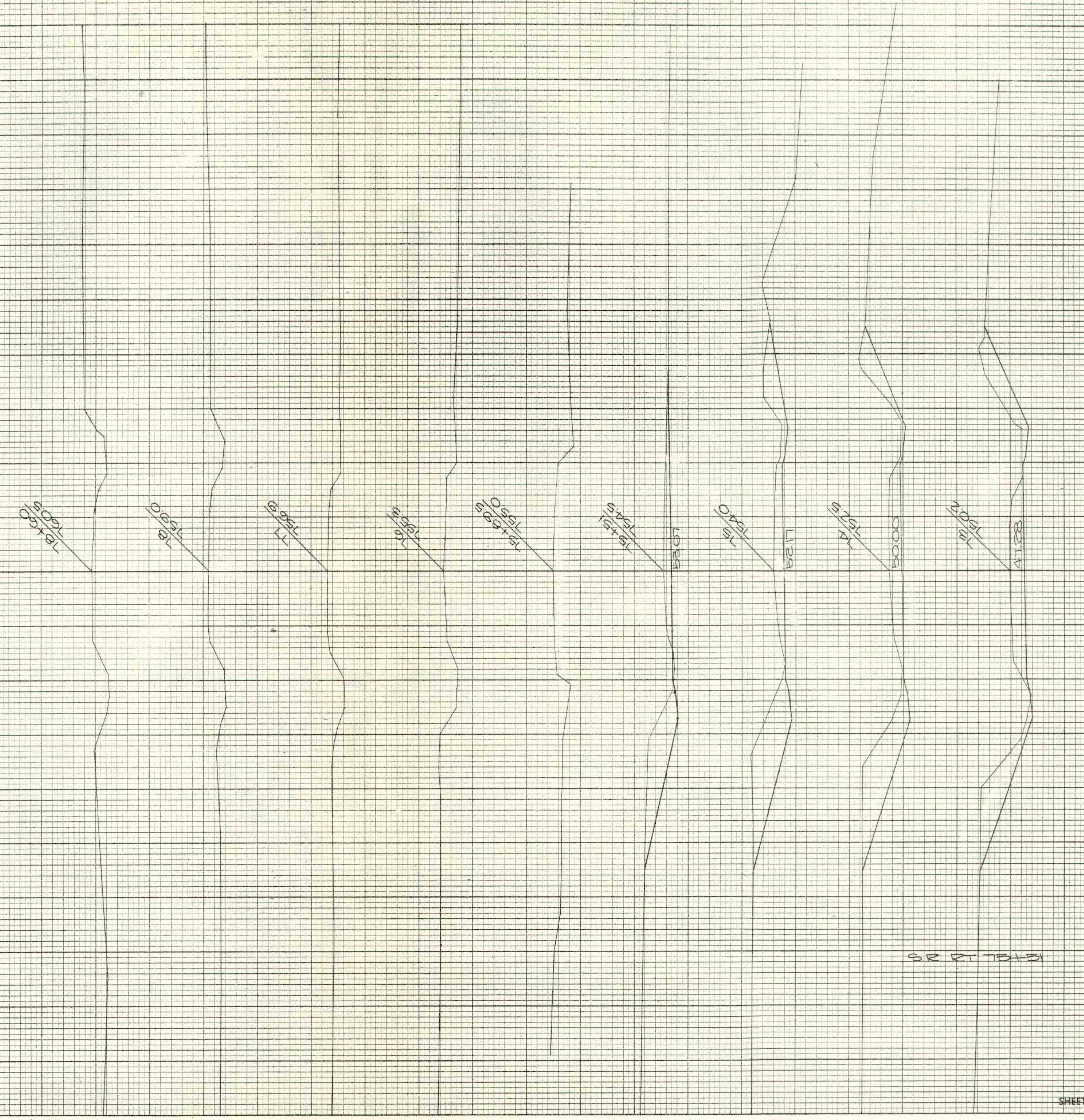
BRUNING NO. 604

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1460(1)	19	20



S.R. RT 75+51

STATION	DISTANCE	YARDAGE EXCAVATION UNCL	FILL
72+08.9			
		639	0
73			
		843	0
74			
		817	0
75			
		324	0
+51			
		96	0
+89.5			
		20	20
SHEET TOTAL		2789	20

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED	D.E.V.	5-63
	PLOTTED	W.I.T.	6-63
	TEMPLATE	W.I.T.	8-63
NO. L	AREAS	R.W.S.	9-63
	AREAS CHECKED		

BRUNING NO. 604

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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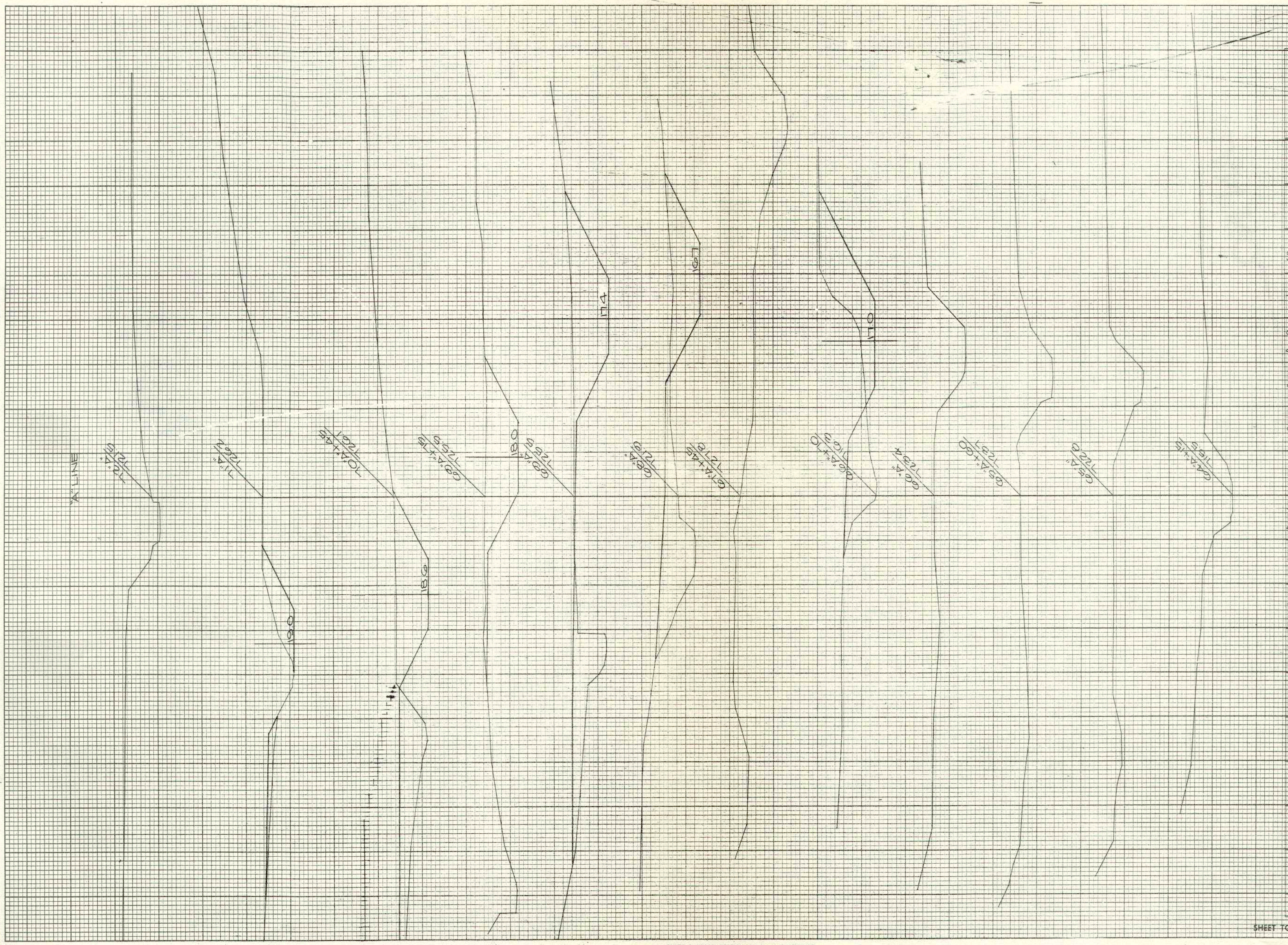
CHARLES BRUNING COMPANY, INC

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1460(1)	20	20



STATION	DISTANCE	YARDAGE – EXCAVATION – UNCL.	FILL
66 "A"			
		838	0
+40			
67 "A" +45			
		61	0
68 "A"			
		922	0
69 "A"			
		184	0
+75			
		587	167
70 "A" +45			
		306	226
71 "A"			
		167	41
72 "A"			
SHEET TOTAL		3065	434

FINAL SURVEY — NOTE BOOK NO. — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. L.L. — SURVEYED 5-62 / PLOTTED 6-62 / TEMPLATE 8-62 / AREAS 8-62 / AREAS CHECKED 9-62

BRUNING NO. 604

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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CHARLES BRUNING COMPANY, INC.