3400

STATE	DIVISION JOB NO.	SHEET NO.	TOTAL SHEETS
WISC.	3400	1	52

INDEX OF SHEETS

SHEET NO. 1 TITLE SHEET
" " 2 TYPICAL CROSS SECTION OF IMPROVEMENT
" " 2A ESTIMATE SHEET
" " 3 RIGHT OF WAY SHEET
" " 4 - PLAN & PROFILE STA. 1 + 89.65 TO STA. 30 + 00
" " 5 " " " 30 + 00 " " 60 + 00
" " 6 " " " 60 + 00 " " 90 + 00
" " 7 " " " 90 + 00 " " 120 + 00
" " 8 " " " 120 + 00 " " 150 + 00
" " 9 " " " 150 + 00 " " 180 + 00
" " 10 " " " 180 + 00 " " 210 + 00
" " 11 " " " 210 + 00 " " 243 + 76.9
" " 12-17 DRAINAGE STRUCTURES & STANDARD DETAILS
" " 18-52 CROSS SECTIONS

STATE OF WISCONSIN

WISCONSIN HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED

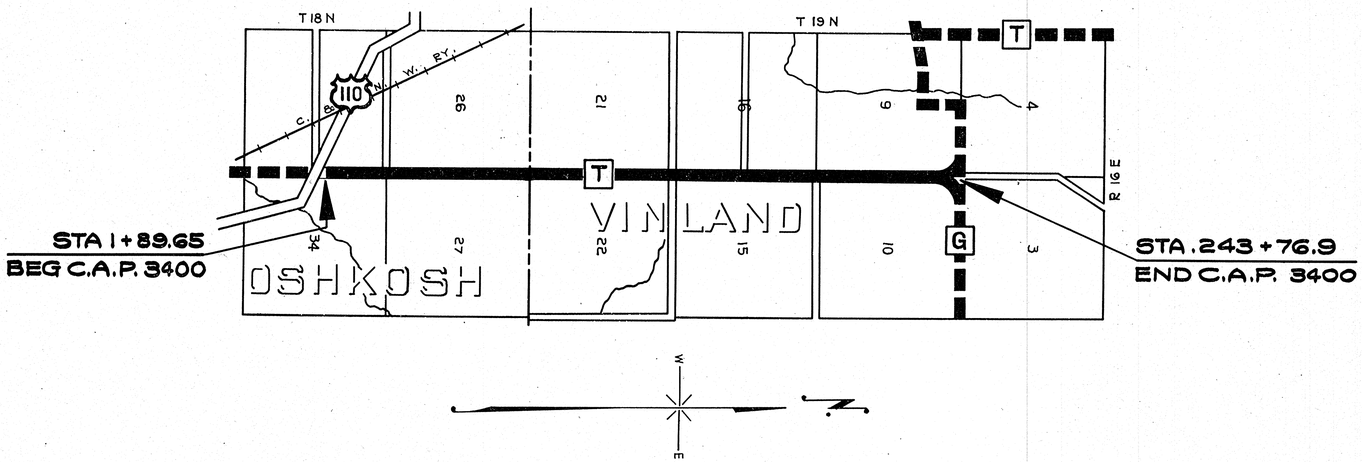
OSHKOSH - WINCHESTER ROAD

WINNEBAGO COUNTY

3400 COUNTY AID PROJECT 3400

BEGINNING NEAR THE W 1/4 CORN. OF SECT. 34, T 19 N, R 16 E, AT SURVEY STA. 1 + 89.65 AND EXTENDING NORTH A DISTANCE OF 4.6707 MILES TO A POINT NEAR THE N.W. CORN. OF SECT. 10, T 19 N, R 16 E, AT SURV. STA. 243 + 76.9

SCALES: PLAN. 1 IN. = 100 FT.
PROFILE. HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS SECTIONS. HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE
COUNTY LINE
CITY, VILLAGE, OR TOWN
TOWNSHIP LINE
SECTION LINE
FENCE LINE
GUARD RAIL
UNFENCED PROPERTY
RIGHT OF WAY LINE
TRAVELED WAY
RAILROADS
RETAINING WALL
LEVEE
BASE OR SURVEY LINE
R.O.W. MARKERS 30 40

CULVERTS
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE OR TELEGRAPH POLES
MAIL BOX
REFERENCE STAKES 30
MARSH
HEDGE
TREES
GROUND ELEVATION 123.6 DATUM LINE
GRADE ELEVATION 125.0 DATUM LINE

LAYOUT

SCALE 2 IN. = 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 4.670 MI.

WISCONSIN HIGHWAY COMMISSION
MADISON, WIS.

Surveyor P. B. Note Book
Div. Computor P. B. M. O. Checker
Div. Checker M. F. Correct

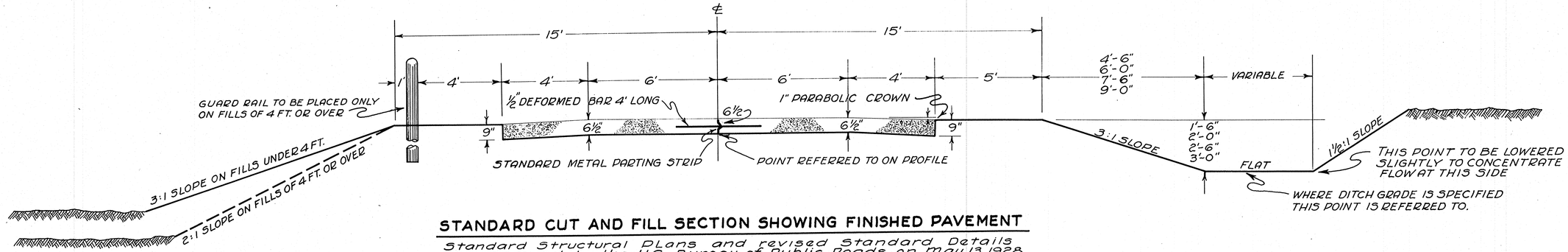
CORRECT:
A. H. Cullen
DIVISION ENGINEER

RECOMMENDED FOR APPROVAL:
Frank Crane
ENGINEER PLANS & SURVEYS

APPROVED: DATE 4/25 1931
W. S. Bruton
STATE HIGHWAY ENGINEER

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. No.	SHEET No.	TOTAL SHEETS
4	WIS.	3400	2	52

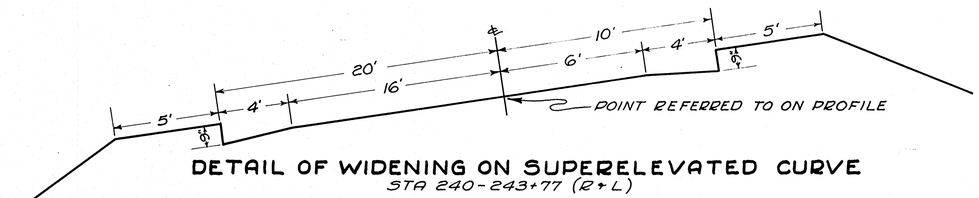
DIVISION JOB NO. 3400



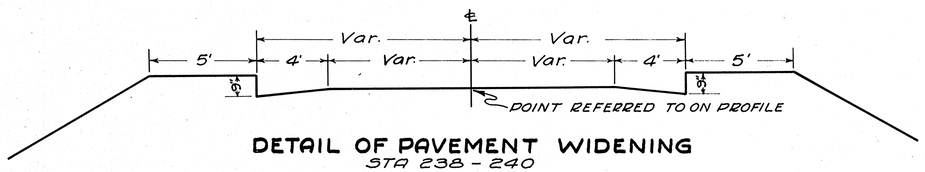
STANDARD CUT AND FILL SECTION SHOWING FINISHED PAVEMENT

Standard Structural Plans and revised Standard Details as approved by the U.S. Bureau of public Roads on May 13, 1928 and as submitted FEB. 21, 1931 will be used on this project. Approved detail drawings are as follows:-

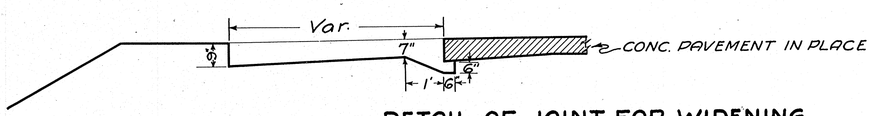
Guard posts - Type "C"	C-36
Project markers	C-36
Pav't reinforcing - bridge appr. & culverts	C-43-1
Pavement joint details	C-40-(1930 STD.)
Lip curbs	C-42-1
Conc. Surface drain basins & drains	C-42-1
Standard R.O.W. markers (Type "C" posts)	C-36
REINF' OVER CULVERTS	C-39-(1930 STD.)
R/W Marker Post	C-45
Construction Barricade	C-48



DETAIL OF WIDENING ON SUPERELEVATED CURVE
STA 240-243+77 (R+L)



DETAIL OF PAVEMENT WIDENING
STA 238 - 240



DETAIL OF JOINT FOR WIDENING
STA 243-244+27 (R+L)



LIP CURB & SHOULDER DETAILS

TYPICAL CROSS SECTION
FOR
20 FT. CONCRETE PAVEMENT
30 FT. ROADWAY

WISCONSIN HIGHWAY COMMISSION
Madison, Wisc.

ESTIMATE OF QUANTITIES

THIS PROJECT IS TO BE EXECUTED UNDER WISCONSIN STANDARD SPECIFICATIONS AS APPROVED BY THE U.S. BUREAU OF PUBLIC ROADS ON

FED ROAD DIST. NO.	STATE	CO. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	2-A	52

MILE NO	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	EXCAVATION: EARTH	EXCAVATION: LOOSE ROCK	EXCAVATION: SOLID ROCK	EXCAVATION: BORROW	EXCAVATION: CHANNEL EXCAVATION	EXCAVATION: SURFACE STONE	EXCAVATION: INTERCEPTING DITCHES	EXCAVATION: SPECIAL DITCHES	SEEDING SLOPES	20 FOOT ONE COURSE P.C. CONC. PAV'T.	JOINTS: CONTRACTION	JOINTS: EXPANSION	LIPCURB TYPE B	CONC. IN SURFACE DRAINS	BAR REINF. STEEL	WIRE MESH	CRUSHED GRAVEL SURFACE COURSE	CRUSHED STONE SURFACE COURSE	HAUL	PORTLAND CEMENT IN PAV'T., LIP CURB, SUR. DRAINS
		LIN. FEET	10 ACRES	11 ACRES	12-1 CU. YDS.	12-2 CU. YDS.	12-3 CU. YDS.	13 CU. YDS.	15 CU. YDS.	16 CU. YDS.	17 CU. YDS.	18 CU. YDS.	19 SQ. YDS.	SQ. YDS.			LIN. FT.	C.Y.	LBS.	SQ. YDS.	28-7 CU. YDS.	28-2 CU. YDS	28-4 CU. YDS. MI.	BBLS.
1	1483.65-55+00	3,310.35			5,792								10,621	11,800.8	118	59			765	268				3,446
2	55+00-107+00	5,300.00			7,708								10,600	11,777.8	118	59			1,020					3,439
3	107+00-160+00	5,300.00			8,264								10,600	11,777.8	118	59			1,020					3,439
4	160+00-213+00	5,300.00			6,589								10,600	11,777.8	118	59			1,020					3,439
5	213+00-239+76.9	3,451.10			6,857								6,902	8,313.8	90	45	2,986	10.2	1,239					2,485
		24,661.45			35,210								49,323	55448.0	562	281	2,986	10.2	5,064	268				16,248

MILE NO.	EXCAVATION: BRIDGES 6'-20' SP. DRY EXC.	EXCAVATION: BRIDGES 6'-20' SP. WET EXC.	EXCAVATION: BRIDGES OVER 20' DRY EXC.	EXCAVATION: BRIDGES OVER 20' WET EXC.	BRIDGES OVER 20'-0" SPAN: PORTLAND C. CONC.	REINF. STEEL	FLOOR DRAINS	STRUCT. STEEL	CAST STEEL	TIMBER PILING DELIVERED	TIMBER PILING DRIVEN	WATER-PROOFG
	23-1 CU. YDS.	23-2 CU. YDS.	23-3 CU. YDS	23-4 CU. YDS.	34-1 CU. YDS	38-1 LBS	52-4 NO	37-1 LBS	37-2 LBS	LIN. FT.	LIN. FT.	39 SQ. FEET
1	60											
2												
3												
4												
5												
	60											

STRUCTURES 6' to 20' SPAN: PORTLAND C. CONC	PORTL. CEMENT	REINF. STEEL	FLOOR DRAINS	STRUCT STEEL	WATER PROOFG
34-2 CU. YDS	BBLS.	38-2 LBS	52-4 NO	37-1 LBS	39 SQ. FT
50.4	86	1630			500
50.4	86	1630			500

CULVERTS 6' SP. + UNDER: PORTLAND C. CONC.	REINF STEEL	PIPE UNDER ℄ 18"	24"	36"	48"
34-4 CU. YDS	38-4 LBS	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
		42		184	
		178		104	
		90	100		
		132			52
		44		180	
		486	100	468	52

MILE NO	PIPE: PIPES UNDER SIDE ROADS 18"	PIPE: DRIV. PIPES 15"	PIPE: ENT. PIPES 18"	GUARD FENCE: WIRE ROPE TYPE 'B'	GUARD FENCE: WIRE ROPE TYPE 'E'	GUARD FENCE: GUARD POSTS TYPE 'C'	GUARD FENCE: ANCHOR-AGES	PROJECT MARKER	RIP RAP	R.O.W. MARKERS
	LIN. FT.	LIN. FT.	LIN. FT.	46-1 LIN. FT	46-2 LIN. FT.	46-3 NO	46-4 NO.	NO	48 CU. YDS	NO.
1	30	120	20			13				
2	30	100				26				
3	30	180				35				
4		140				12				
5		60				31				10
	90	600	20			117				10

TOTAL PORTLAND CEMENT
16,334 BBLS.

ESTIMATE OF QUANTITIES
FOR
20' CONCRETE ROAD

OSHKOSH WINCHESTER ROAD
CO. AID PROJECT # 3400
WISCONSIN HIGHWAY COMMISSION
MADISON, WISC.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	4	52

DIVISION JOB NO. 3400

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
1	0+12	SPIKE IN 10" BOX ELDER	50' R	100.00
2	5+20	" " 12" OAK	110' L	98.01
3	25+45	" " 10" BOX ELDER	30' L	109.18

STA. 7+22 - 6'×3½'×20' CONC. CUL. IN PLACE. REMOVE

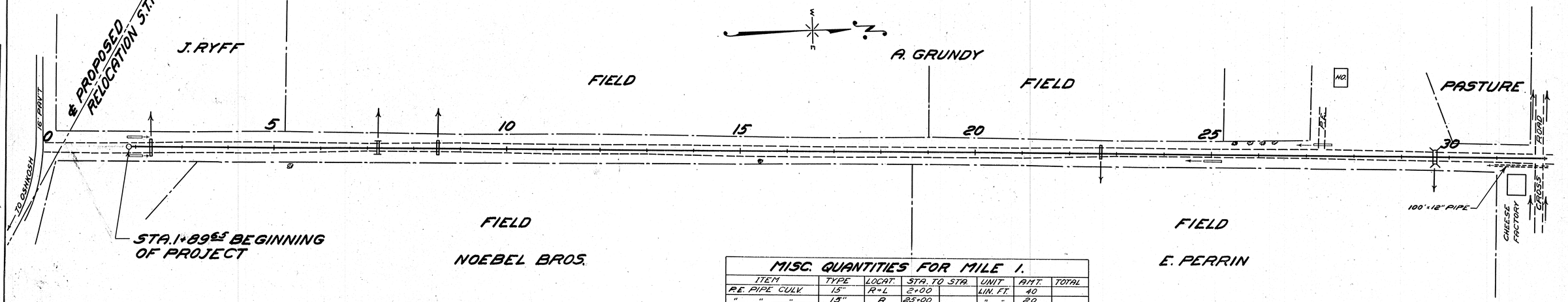
STA. 22+79 18"×18' PIPE IN PLACE. REMOVE

STA. 29+70 - 8'×6'×20' CONC. BRIDGE IN PLACE. EXTEND

STA. 2+34 - 12"×22' PIPE IN PLACE. REMOVE

STA. 8+50 - 2-18"×20' CONC. PIPES IN PLACE. REMOVE

STA. 31+93 18"×30' PIPE REQ'D UNDER CROSS ROAD ON RIGHT



MISC. QUANTITIES FOR MILE 1.

ITEM	TYPE	LOCAT.	STA. TO STA.		UNIT	AMT.	TOTAL
P.E. PIPE CULV.	15"	R&L	2+00		LIN. FT.	40	
" " "	15"	R	25+00		" "	20	
" " "	15"	L	27+15		" "	20	
" " "	15"	L	40+00		" "	20	
" " "	15"	R	42+25		" "	20	120
" " "	18"	R	31+50		" "	20	20
GUARD FENCE	6'-16'C-C	L	29+70	30+34	POSTS	5	
" "	6'-16'C-C	R	29+54	30+34	"	6	11

NET LENGTH OF CENTERLINE		
STATION TO STATION		LENGTH
1+89.65	30+00	2810.35

1+89.65 - 6+08 — C-413 C.Y. F-330 C.Y. SHR.-25%

6+08 - 8+11 — C-187 C.Y. F-150 C.Y. SHR. 25%

8+11 - 21+04 — C-1538 C.Y. F-1244 C.Y. SHR. -25%

21+04 - 25+28 — C-572 C.Y. F-457 C.Y. SHR.-25%

25+28 - 29+84 — C-536 C.Y. F-429 C.Y. SHR.-25%

STA. 7+22 1-36"×46' PIPES REQ'D
ELEVATION IN - 93.0 DIS - 92.5
PAVT REINF REQD - 510#
1-TYPE "C" CUL. POST REQ'D.

M-2344 X-3952

STA. 29+70 EXTEND 8' SPAN 20' ROADWAY BRIDGE TO 30' ROADWAY CUL. TYPE. EL. FLOOR - 114.8. STREAM BED - 1081. BOTTOM OF FOOTINGS - 104.5. CONC. 30 C.Y. REINF. STEEL 1630 LBS. WET EXCAVATION — C.Y. DRY EXCAVATION 60 C.Y. WATER-PROOFING 300 SQ. FT. STEEL PAVT REINF. (WIRE MESH) 268 SQ. YDS.

PLATE 1 — PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
4	39+35	SPIKE IN 15" HICKORY	30' L	128.25

STA. 51+18 - 12"x18' PIPE IN PLACE. REMOVE

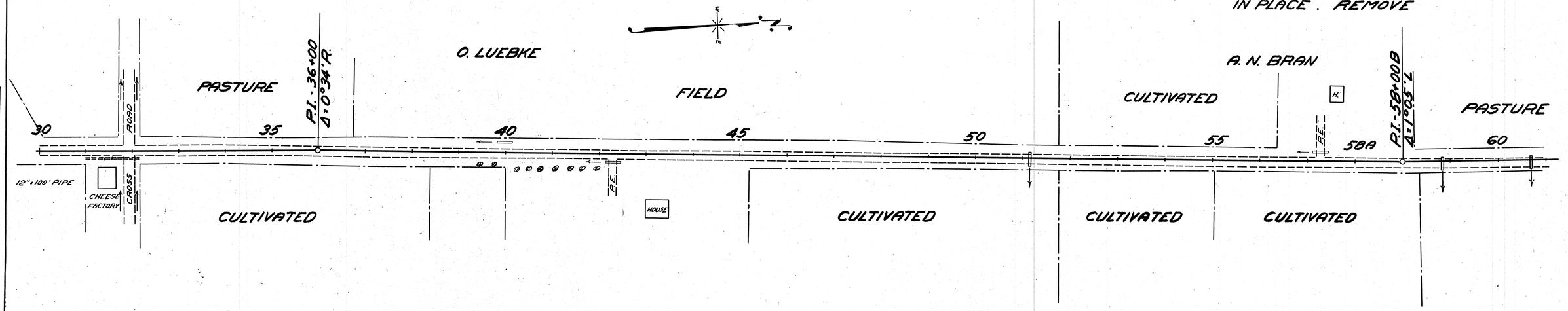
STA. 58+85 - 15"x18' PIPE IN PLACE. REMOVE

STA. 60+70 - 12"x24' PIPE IN PLACE. REMOVE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	5	52

DIVISION JOB NO. 2400

PLAN — SURVEYED BY BISHOP — DATE — PLOTTED — DRAWN — LAST CHECKED — AS BUILT CHECKED — NOTE BOOK NO. 2822 — STRUCTURE NOTATNS CH'KD.



NET LENGTH OF CENTERLINE

STATION TO STATION		LENGTH
30+00	55+00	2500
55+00	60+00	600
30+00	60+00	3100

PROFILE — SURVEYED BY BISHOP — DATE — PLOTTED — DRAWN — LAST CHECKED — AS BUILT CHECKED — NOTE BOOK NO. 2822 — STRUCTURE NOTATNS CH'KD.

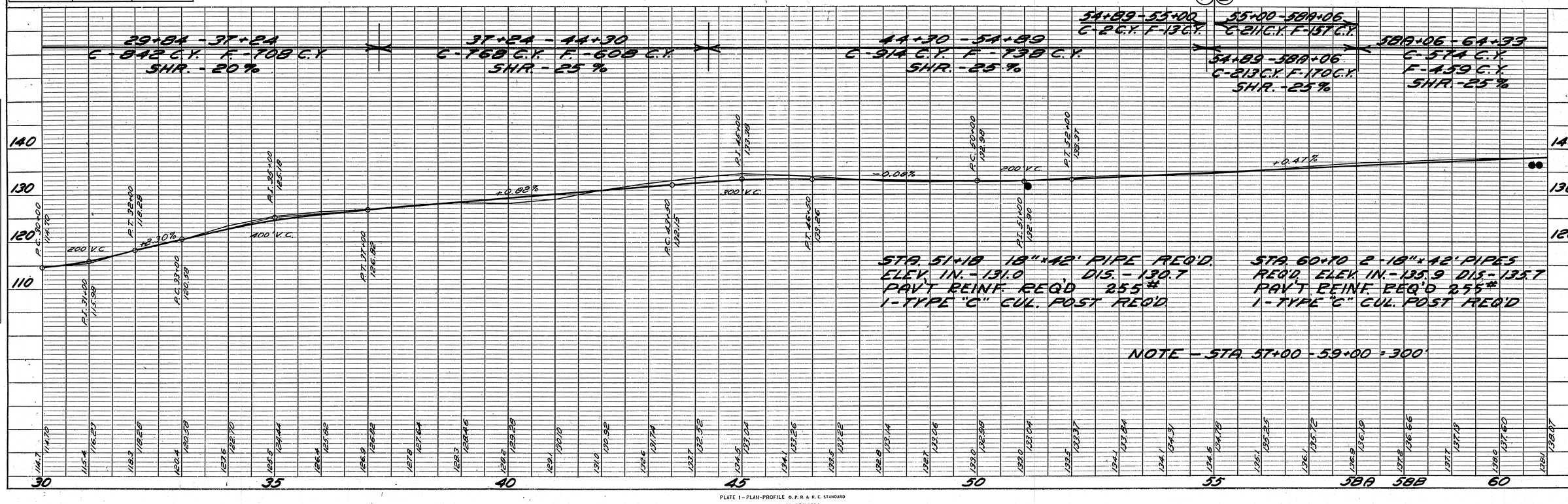


PLATE 1 — PLAN-PROFILE O. P. R. & R. C. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	6	52

DIVISION JOB NO. 3400

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
5	62+20	SPIKE IN 18" MAPLE	28' L	138.75
6	95+10	" " 16" "	35' R	161.39

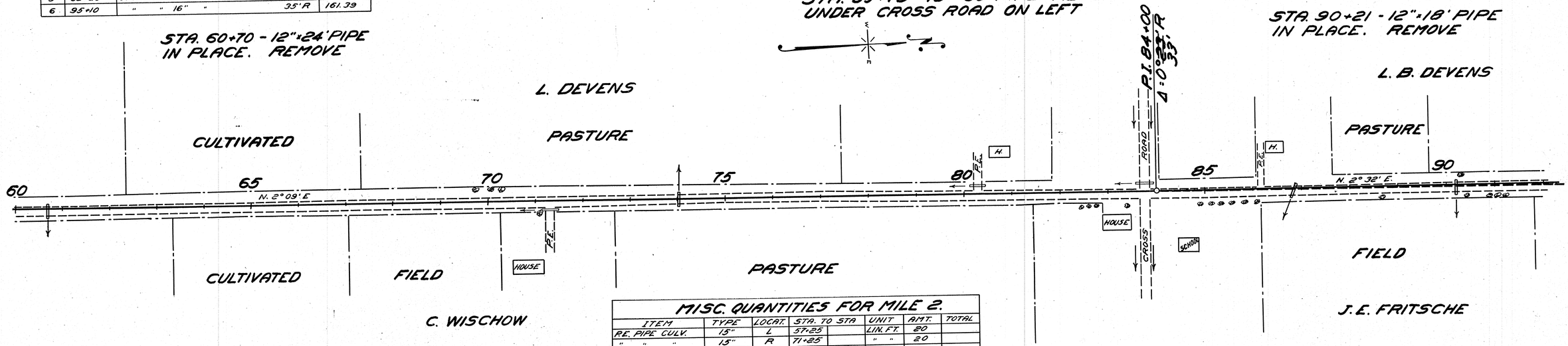
STA. 60+70 - 12"x24' PIPE IN PLACE. REMOVE

STA. 74+03 - 12"x20' PIPE IN PLACE. REMOVE

STA. 83+78 18"x30' PIPE REQ'D UNDER CROSS ROAD ON LEFT

STA. 86+86 - 2-36"x36 PIPES IN PLACE. REMOVE

STA. 90+21 - 12"x18' PIPE IN PLACE. REMOVE



MISC. QUANTITIES FOR MILE 2.

ITEM	TYPE	LOCAT.	STA. TO STA		UNIT	AMT.	TOTAL
R.E. PIPE CULV.	15"	L	57+25		LIN. FT.	20	
" " "	15"	R	71+25		" "	20	
" " "	15"	L	80+25		" "	20	
" " "	13"	L	93+00		" "	20	
" " "	15"	R	94+75		" "	20	100
GUARD FENCE	"C" 16'C-C	L	111+04	112+32	POSTS	9	
" "	" " "	R	110+24	112+16	"	13	22

NET LENGTH OF CENTERLINE		
STATION TO STATION		LENGTH
60+00	90+00	3000

PLAN — SURVEYED: BY ELSTAD THELEN; PLOTTED: DATE; NOTE BOOK GRADES CHECKED: J.W.B.; NO. 5023 R. W.& NOTED: J.B.; STRUCTURE NOTATING CH'KD.; RT. OF WAY CHECKED:

PROFILE — SURVEYED: BY; PLOTTED: DATE; NOTE BOOK GRADES CHECKED: J.W.B.; NO. 5023 R. W.& NOTED: J.B.; STRUCTURE NOTATING CH'KD.

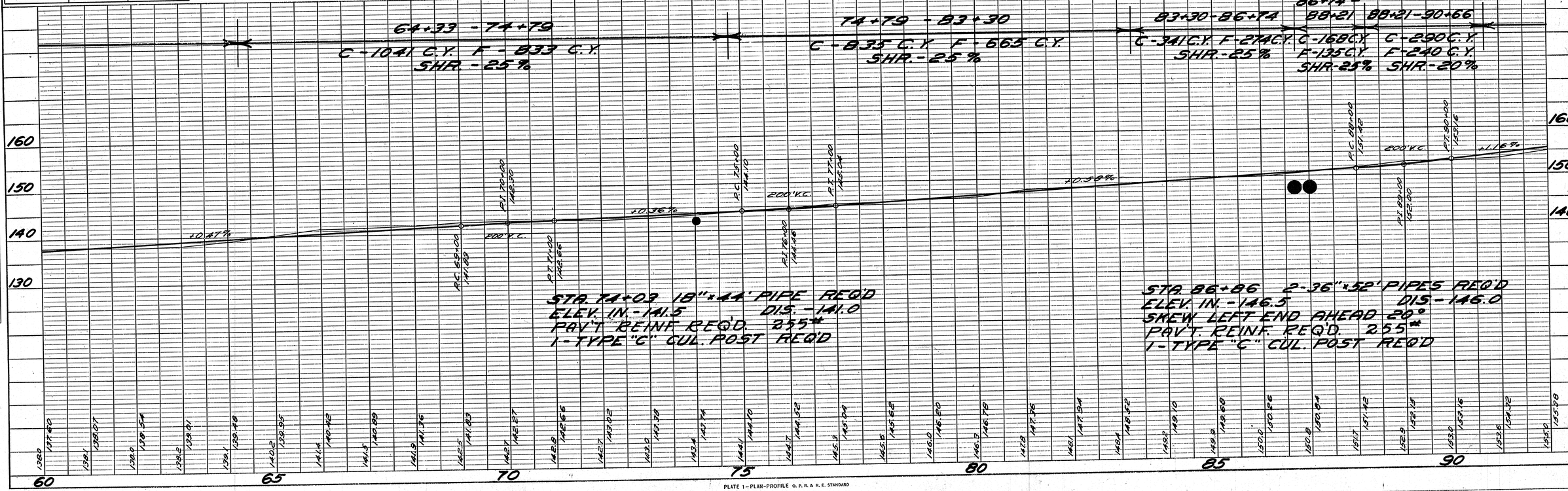


PLATE 1 — PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	7	52

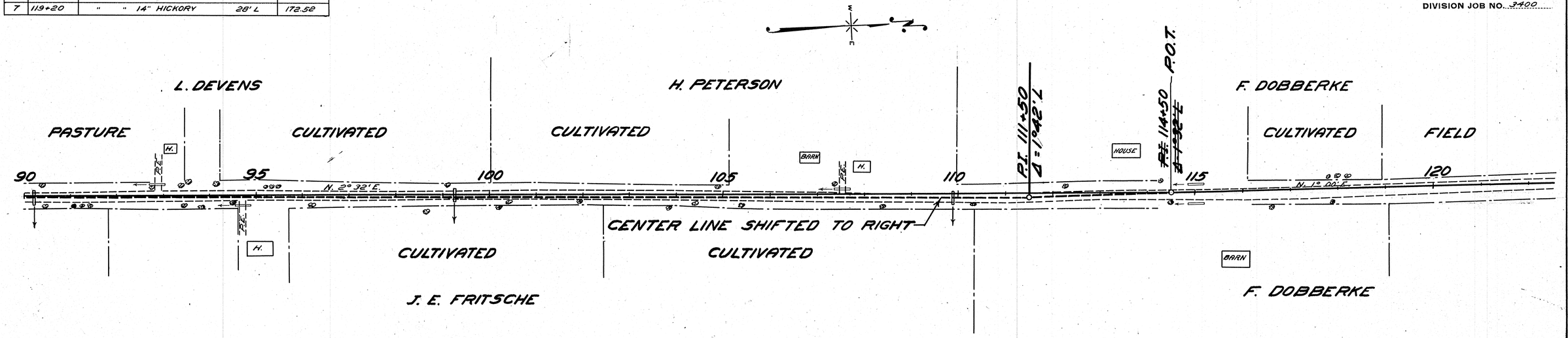
DIVISION JOB NO. 3400

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
6	95+10	SPIKE IN 16" MAPLE	35' R.	161.39
7	119+20	" " 14" HICKORY	28' L	172.52

STA. 99+28 12"×18' PIPE IN PLACE. REMOVE

STA. 109+89 18"×18' PIPE IN PLACE. REMOVE



NET LENGTH OF CENTERLINE		
STATION TO STATION		LENGTH
90+00	107+00	1700
107+00	120+00	1300
90+00	120+00	3000

90+66 - 93+39
C - 362 C.Y.
F - 299 C.Y.
SHR. - 20%

93+39 - 103+27
C - 2024 C.Y. F - 1687 C.Y.
SHR. - 20%

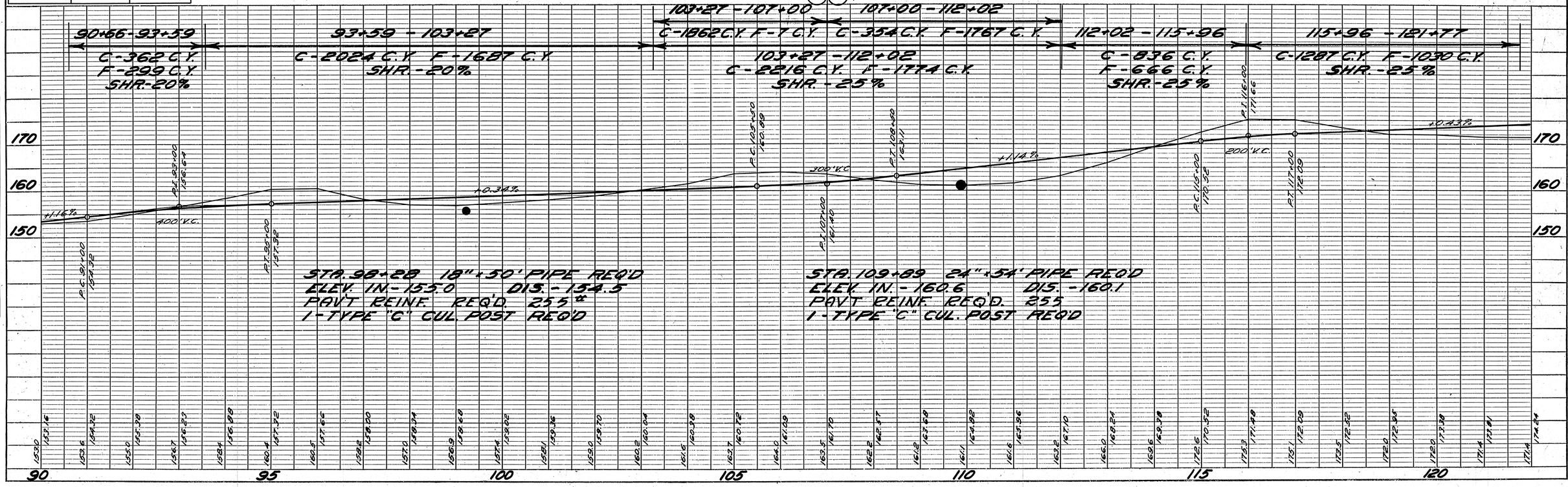
103+27 - 107+00
C - 1862 C.Y. F - 7 C.Y.

107+00 - 112+02
C - 354 C.Y. F - 1767 C.Y.

103+27 - 112+02
C - 2216 C.Y. F - 1774 C.Y.
SHR. - 25%

112+02 - 115+96
C - 836 C.Y.
F - 666 C.Y.
SHR. - 25%

115+96 - 121+77
C - 1287 C.Y. F - 1030 C.Y.
SHR. - 25%



STA. 99+28 18"×30' PIPE REQ'D
ELEV. IN - 155.0 DIS. - 154.5
PAVT REINF. REQ'D. 255 #
1 - TYPE "C" CUL. POST REQ'D

STA. 109+89 24"×54' PIPE REQ'D
ELEV. IN. - 160.6 DIS. - 160.1
PAVT REINF. REQ'D. 255
1 - TYPE "C" CUL. POST REQ'D

PLAN — SURVEYED BY: ELSTROP THELEN; PLOTTED; LAYOUT CHECKED; R/W PLOTTED; R/W CHECKED; NOTE BOOK NO. 2023

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; M.H. NOTED; STRUCTURE NOTATIONS CH'KD.; NOTE BOOK NO. 2023; DATE; BY: F.W.B., J.E.

PLATE 1 — PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	8	52

DIVISION JOB NO. 3400

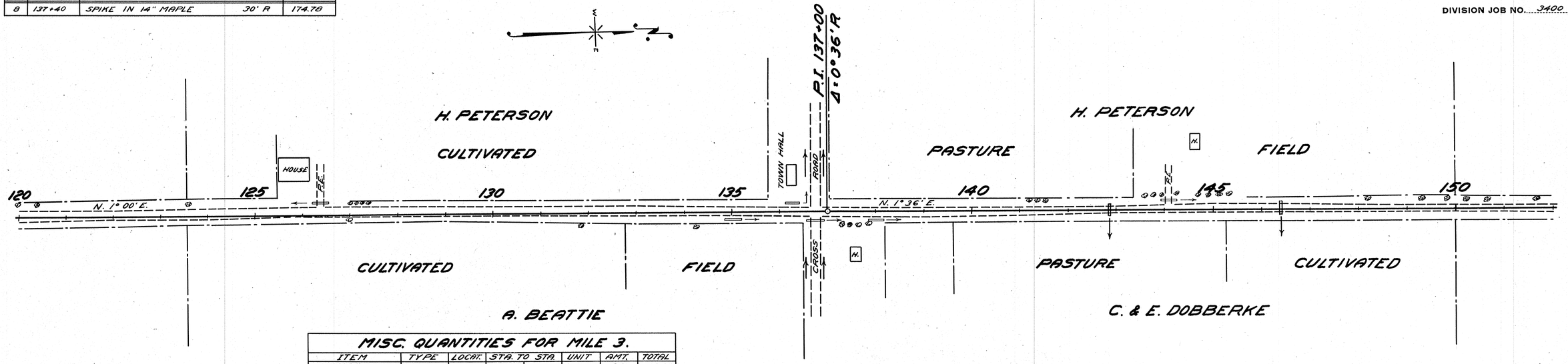
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
8	137+40	SPIKE IN 14" MAPLE 30' R	174.78

STA. 136+77 18"×30' PIPE REQ'D UNDER CROSS ROAD ON RIGHT

STA. 142+86 18"×18' PIPE IN PLACE. REMOVE

STA. 146+40 15"×18' PIPE IN PLACE. REMOVE



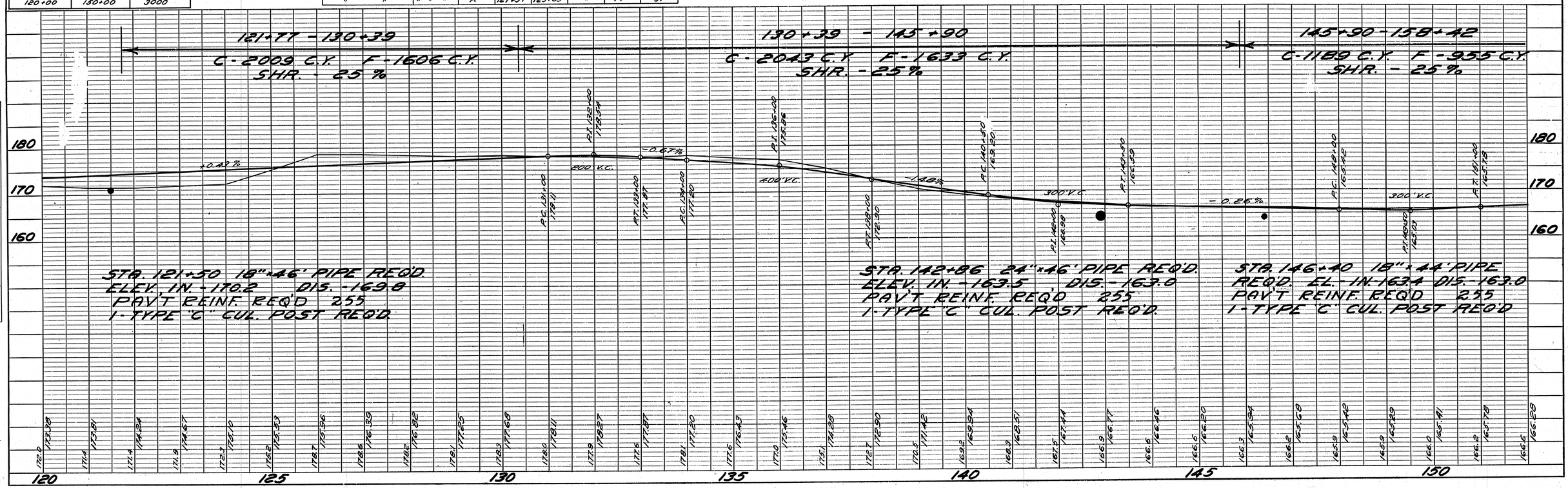
MISC. QUANTITIES FOR MILE 3.

ITEM	TYPE	LOCAT.	STA. TO STA.		UNIT	AMT.	TOTAL
P.E. PIPE CULV.	15"	L	107+50		LIN. FT.	20	
" " "	15"	L & R	115+00		" "	40	
" " "	15"	L	126+25		" "	20	
" " "	15"	R	135+00		" "	20	
" " "	15"	L	136+25		" "	20	
" " "	15"	R	138+00		" "	20	
" " "	15"	L	144+10		" "	20	
" " "	15"	L	155+00		" "	20	180
GUARD FENCE	"C" 16' C-C	L	121+57	124+13	POSTS	17	
" "	" " "	R	121+57	123+65	"	14	31

NET LENGTH OF CENTERLINE		
STATION TO STATION		LENGTH
120+00	150+00	3000

PLAN — SURVEYED: ; PLOTTED: ; NOTE BOOK: ; NO. 3223 — ALIGNMENT CHECKED. RT. OF WAY CHECKED. — BY: BISHOP THELEN — DATE:

PROFILE — SURVEYED: ; PLOTTED: E.W.B. ; NOTE BOOK: ; NO. 3223 — GRADES CHECKED. J.B. ; B.M.'S NOTED. ; STRUCTURE NOTATIONS CH'KD. — DATE:



STA. 121+50 18"×46' PIPE REQ'D.
ELEV. IN. - 170.2 DIS. - 169.8
PAV'T REINF. REQ'D 255
1-TYPE "C" CUL. POST REQ'D.

STA. 142+86 24"×46' PIPE REQ'D.
ELEV. IN. - 163.5 DIS. - 163.0
PAV'T REINF. REQ'D 255
1-TYPE "C" CUL. POST REQ'D.

STA. 146+40 18"×44' PIPE REQ'D. EL. - IN. - 163.4 DIS. - 163.0
PAV'T REINF. REQ'D 255
1-TYPE "C" CUL. POST REQ'D

PLATE 1 - PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	9	52

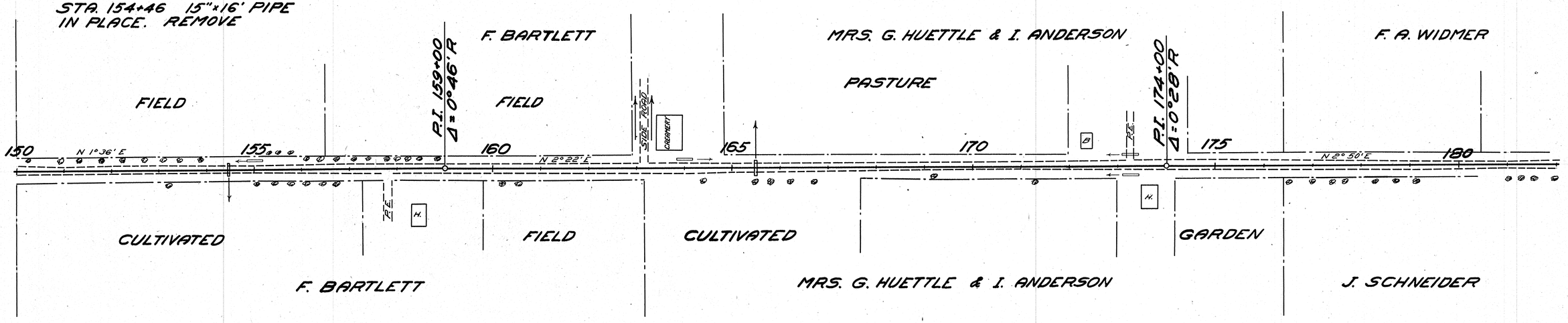
DIVISION JOB NO. 3400

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
9	153+20	SPIKE IN 24" OAK	26' L	167.98
10	173+70	" " 20" MAPLE	35' R	171.06

STA. 154+46 15"x16' PIPE IN PLACE. REMOVE

STA. 165+50 12"x18' PIPE IN PLACE. REMOVE



NET LENGTH OF CENTERLINE		
STATION TO STATION		LENGTH
150+00	160+00	1000
160+00	180+00	2000
150+00	180+00	3000

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED	
NO. 5823	RT. OF WAY CHECKED	

PROFILE

	BY	DATE
SURVEYED	F.H.B.	
PLOTTED	"	
NOTE BOOK	GRADES CHECKED	J.B.
NO. 5823	B. M.'S NOTED	
	STRUCTURE NOTATIONS CH'KD.	

(3) (4)

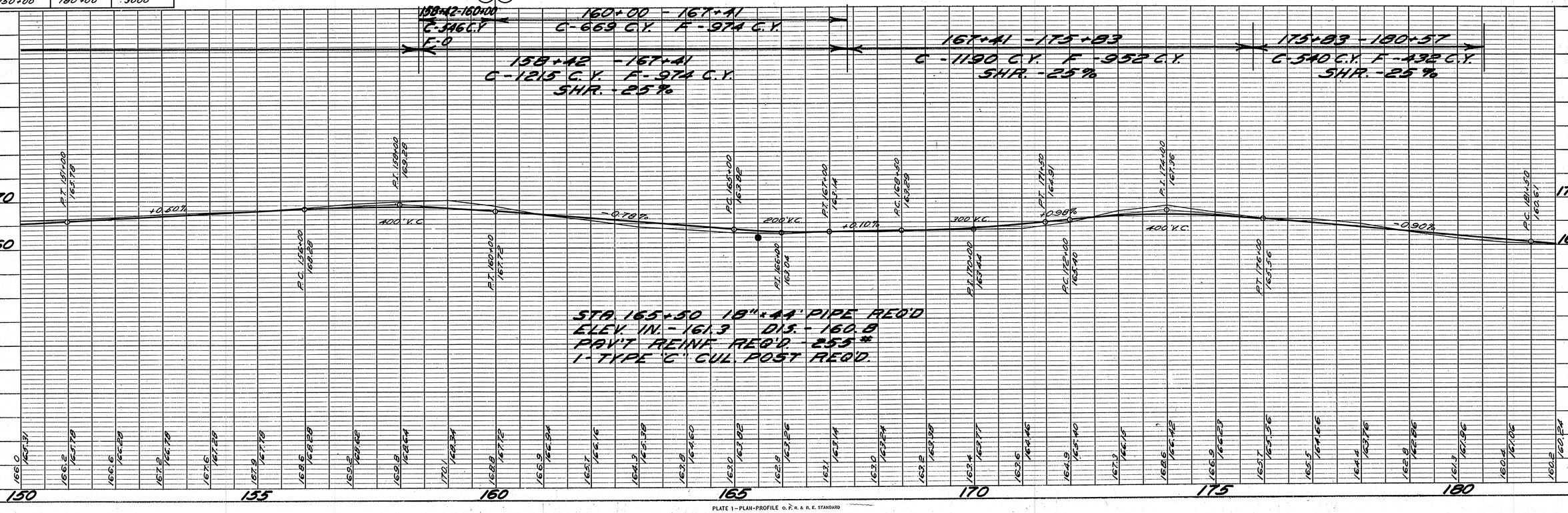
158+42 - 160+00
C - 346 C.Y.
F - 0

160+00 - 167+41
C - 669 C.Y. F - 974 C.Y.

158+42 - 167+41
C - 1215 C.Y. F - 974 C.Y.
SHR. - 25%

167+41 - 175+83
C - 1130 C.Y. F - 932 C.Y.
SHR. - 25%

175+83 - 180+57
C - 540 C.Y. F - 432 C.Y.
SHR. - 25%



STA. 165+50 18"x44' PIPE REQ'D
ELEV. IN. - 161.3 DIS. - 160.8
PAV'T REINF REQ'D. - 255 #
1 - TYPE "C" CUL. POST REQ'D.

PLATE 1 — PLAN-PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	10	52

DIVISION JOB NO. 3400

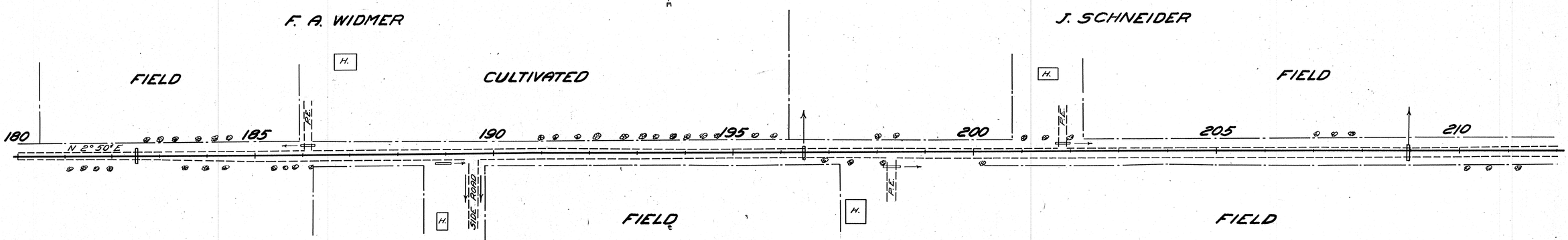
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
11	199+60	SPIKE IN 36" OAK 36'R	157.42

STA. 182+50 15"x22' PIPE EQUALIZER IN PLACE. REMOVE

STA. 196+48 15"x18' PIPE IN PLACE. REMOVE

STA. 208+95 48"x23' PIPE IN PLACE. REMOVE



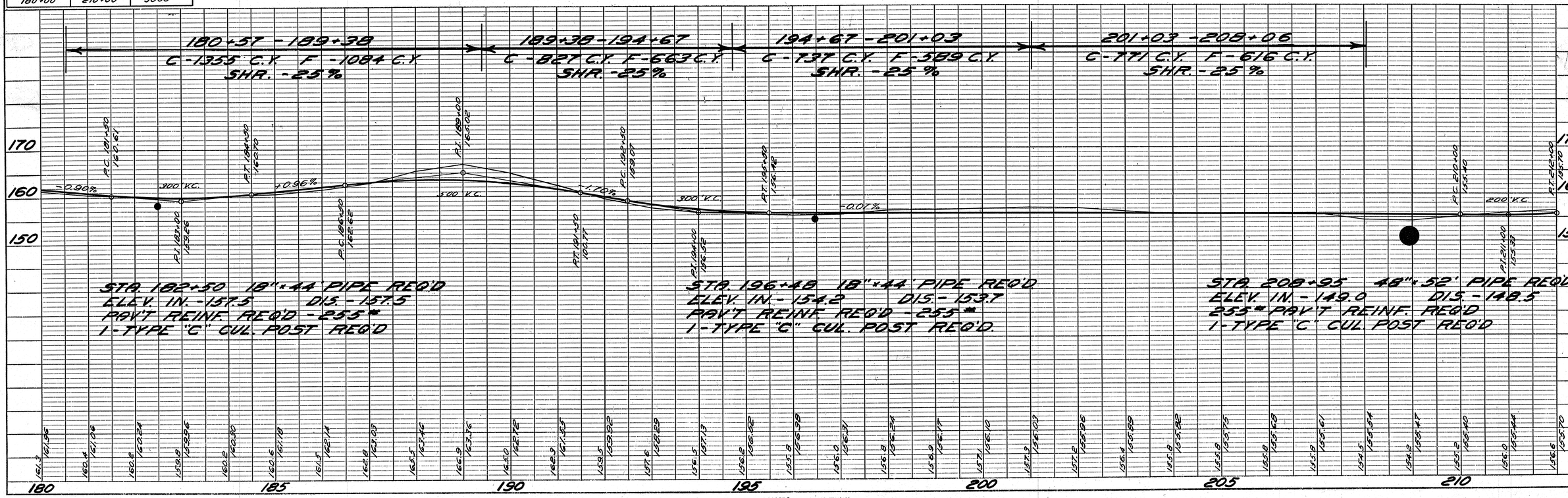
MISC. QUANTITIES FOR MILE 4

ITEM	TYPE	LOCAT.	STA. TO STA.		UNIT	AMT.	TOTAL
P.E. PIPE CULV.	15"	L	164+00		LIN. FT.	20	
" " "	15"	L+R	173+25		" "	40	
" " "	15"	L	186+10		" "	20	
" " "	15"	R	189+00		" "	20	
" " "	15"	R	198+35		" "	20	
" " "	15"	L	201+90		" "	20	140
GUARD FENCE	'C' 16' C-C.	L+R	208+68	209+16	POSTS	8	8

NET LENGTH OF CENTERLINE		
STATION TO STATION		LENGTH
180+00	210+00	3000

PLAN — SURVEYED BY: BISHOP; PLOTTED: THELEN; NOTE BOOK NO. 2224; GRADES CHECKED; ALIGNMENT CHECKED; STRUCTURE NOTATNS CH'KD.; DATE

PROFILE — SURVEYED BY: R.W.B.; PLOTTED: J.E.; NOTE BOOK NO. 2223; GRADES CHECKED; ALIGNMENT CHECKED; STRUCTURE NOTATNS CH'KD.; DATE



STA. 182+50 18"x44' PIPE REQ'D
ELEV. IN. - 157.5 DIS. - 157.5
PAV'T REINF. REQ'D - 255#
1 - TYPE "C" CUL. POST REQ'D

STA. 196+48 18"x44' PIPE REQ'D
ELEV. IN. - 154.2 DIS. - 153.7
PAV'T REINF. REQ'D - 255#
1 - TYPE "C" CUL. POST REQ'D.

STA. 208+95 48"x32' PIPE REQ'D.
ELEV. IN. - 149.0 DIS. - 148.5
255# PAV'T REINF. REQ'D
1 - TYPE "C" CUL. POST REQ'D

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.	3400	11	52

DIVISION JOB NO. 3400

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
12	220+30	SPIKE IN 36" OAK	30'R	158.54
13	242+60	" " 6" POPLAR	250'L	146.38

STA. 216+00 15"x24' PIPE IN PLACE. REMOVE

STA. 238+30 3'1"x2'1"x21½' STONE CUL. IN PLACE. REMOVE

P.I.: 242+42.2
Δ : 90°11'
D : 24°
T : 241.2
L : 375.2
S.E.: 0.08' PER FT.

J. SCHNEIDER

FIELD

SCHOOL

CULTIVATED

E. & R. HALDEMAN

PASTURE

PASTURE

FIELD

FIELD

CULTIVATED

W. GINNOW

F. VOSBURG

P.I. 226+51.2
Δ: 0°54'L.

P.I.: 242+42.2
Δ : 89°49'
D : 24°
T : 239.2
L : 374.2
S.E.: 0.08' PER FT.

P.T. 243+76.2

P.C. 240+01.2

P.C. 240+02.3

P.T. 243+76.2

C.T.H. "G"

TO NEENAH

60' PAVEMENT

DETAIL OF INTERSECTION
SCALE - 1" = 80'

EXPANSION JOINTS

CONST. JOINT PARTING STRIP

CONST. JOINT PARTING STRIP

NET LENGTH OF CENTERLINE

STATION TO STATION		LENGTH
210+00	213+00	300
213+00	242+42.2	2942.2
210+00	242+42.2	3242.2

MISC. QUANTITIES FOR MILE 5

ITEM	TYPE	LOCAT.	STA. TO STA.		UNIT	AMT.	TOTAL
P.E. PIPE CULV.	15"	L	214+00		LIN. FT.	20	
" " "	15"	L	225+50		" "	20	
" " "	15"	R	229+15		" "	20	60
LIP CURB	B	L+R	229+00	241+23	" "	2986	2986
" " OUTLETS	5'G	L+R	237+00		C.Y.	5.4	
" " "	5'L.P.	L+R	242+83		C.Y.	4.8	10.2
STEEL IN L.C. OUTLETS TOTAL FOR MILE					LBS.	346	346
R.O.W. MARKERS		"	"		NO.	10	10
GUARD FENCE	6' 16' C.C.	L	238+72	240+00	POSTS	9	
" "	" " "	R	238+27	241+15	"	19	28

208+06 - 213+00
C-500 C.Y. F-658 C-382 F-0

208+06 - 214+03
C-822 C.Y. F-658 C.Y.
SHR. -25%

214+03 - 219+13
C-633 C.Y. F-506 C.Y.
SHR. -25%

219+13 - 226+10
C-905 C.Y. F-725 C.Y.
SHR. -25%

226+10 - 243+76.2
C-4997 C.Y. F-3998 C.Y.
SHR. 25%

P.C. 208+40.00 165.40
P.T. 211+00.00 155.33
P.C. 211+00.00 155.33
P.T. 213+00.00 155.70
P.C. 213+00.00 156.01
P.T. 216+00.00 157.18
P.C. 216+00.00 156.91
P.T. 217+00.00 157.44
P.C. 219+00.00 158.09
P.T. 221+00.00 159.49
P.C. 221+00.00 159.49
P.T. 224+00.00 160.07
P.C. 225+00.00 162.72
P.T. 227+00.00 163.43
P.C. 227+00.00 163.31
P.T. 230+00.00 159.19
P.C. 230+00.00 159.19
P.T. 232+00.00 154.25
P.C. 232+00.00 154.25
P.T. 234+00.00 149.31
P.C. 234+00.00 149.31
P.T. 236+00.00 144.37
P.C. 236+00.00 144.37
P.T. 238+00.00 144.87

200' V.C.
300' V.C.
400' V.C.
+0.37%
+0.86%
+1.06%
-0.47%
-0.40%

STA. 216+00 18"x44' PIPE REQ'D
ELEV. IN. - 154.8 DIS. - 154.5
PAV'T REINF. REQ'D - 233#
1-TYPE "C" CUL. POST REQ'D

STA. 238+30 36"x52' PIPE REQ'D
ELEV. IN. - 138.25 DIS. - 138.0
PAV'T REINF. REQ'D - 253#
1-TYPE "C" CUL. POST REQ'D

STA. 241+40.R 36"x128' PIPE
REQ'D. 20° ANGLE AT 60'
ELEV. IN. - 138.63 DIS. - 138.33
PAV'T REINF. REQ'D. - 383#
1-TYPE "C" CUL. POST REQ'D

CURVE TO LEFT

SUBGRADE PROFILE OF INSIDE EDGE

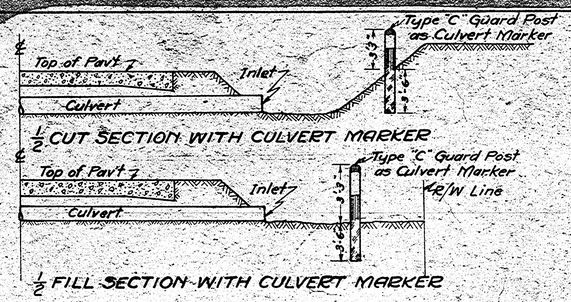
-0.40% 100' V.C. +0.39% 100' V.C. +0.60%

| | | | | | | |

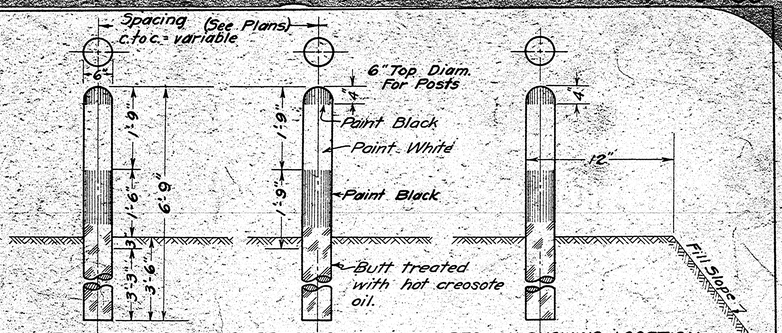
FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	18	52

DIVISION / JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCES	YARDAGE CUT EARTH	YARDAGE CUT ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL FILL
1+90	7		46						
				10					17
2	7		46						
				33					146
3	11		33						
				91					78
4	38	9							
				148					33
5	42	9							



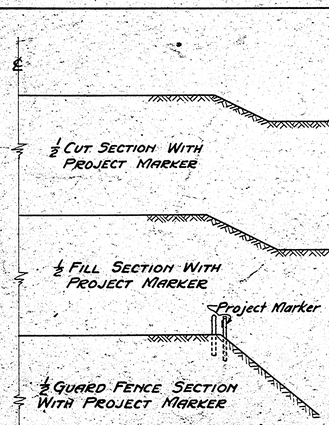
Type "C" Guard Post as Culvert Marker to be placed at inlet end of culvert. Place post clear of channel.
In Cut, place post on back slope.
In Fill, place post beyond end of pipe so it is visible from the roadway.



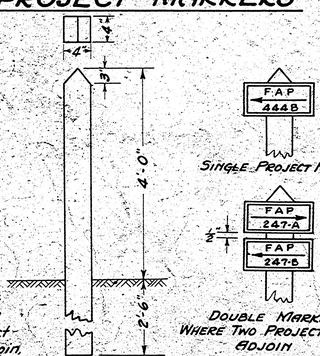
GENERAL NOTES: Posts to have minimum top diam. of 6". Tops of posts shall be neatly rounded. Untreated portion of all posts shall be shaved to the white before painting. All posts shall receive 3 coats of paint according to specifications and colors as shown.

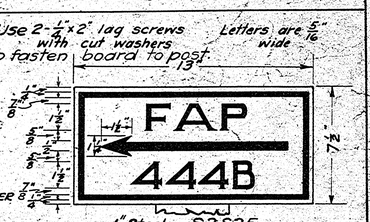
GUARD POSTS TYPE C

PROJECT MARKERS



GENERAL NOTES: One F.A.P. plate shall be placed at the beginning and end of each F.A.P. on the right hand side as the project is entered. Where two projects adjoin, a single marker post and two plates shall be placed, each plate pointing in the direction of the project to which it refers. Where treated post is used a tight fitting Fiber Washer between post and plate shall be used.





STANDARD DESIGN GUARD POSTS-TYPE-C & PROJECT MARKERS

WISCONSIN HIGHWAY COMMISSION

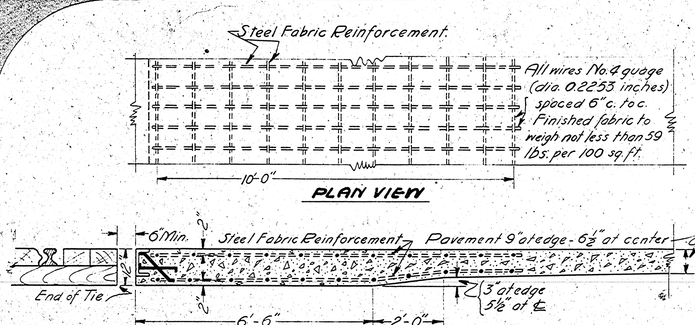
Recommended for Approval: A. T. Hambuechen CONSTRUCTION ENGR.

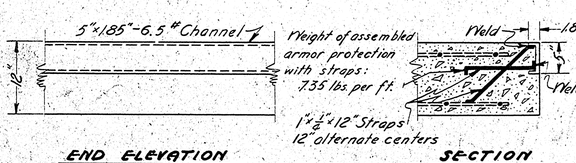
Approved: W. S. Bruetsch STATE HIGHWAY ENGINEER

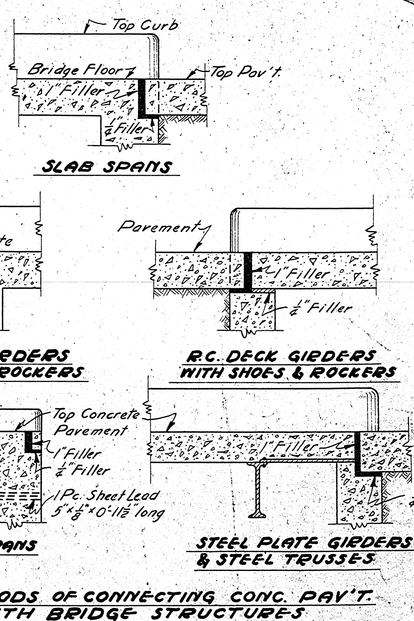
Date: 7/2/31

Revised Jan. 1931

Approved as Revised







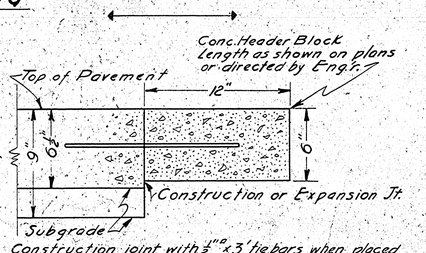
NOTE FOR STANDARD DESIGN OF RAILROAD CROSSING APPROACH SHOWING ARMOR PROTECTION:

Protect ends of pavement at railroad crossings as shown.

Pavement to be flat. Crown to be worked out in 25 feet.

Additional concrete required in pavement to be converted in Sq. Yds. of standard concrete pavement and paid for as such.

Armor protection shown to be measured by the pound and paid for at the contract unit price bid in the proposal for "Armor Protection", which price shall be full compensation for furnishing complete in place.



Construction joint with 1/2" x 3' tiebars when placed at edge of pav't. or std. expan. joint with std. dowels when placed at end of pavement.

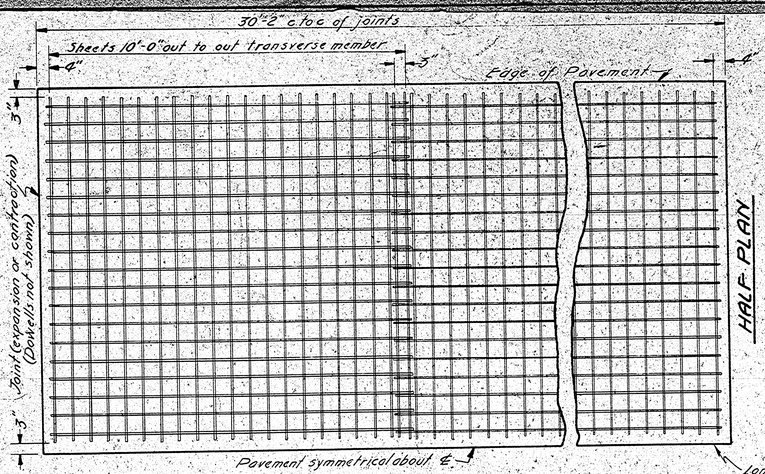
STANDARD DESIGN PAVEMENT REINFORCEMENT AT RAILROAD CROSSINGS-PAVEMENT CONNECTIONS WITH BRIDGES AND CONCRETE HEADER BLOCK

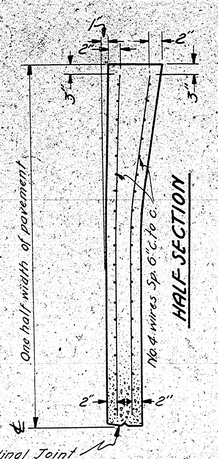
WISCONSIN HIGHWAY COMMISSION

Recommended for approval: A. T. Hambuechen CONSTRUCTION ENGR.

Approved: W. S. Bruetsch STATE HIGHWAY ENGR.

Date: 7/2/31





STEEL REINFORCEMENT FOR BRIDGE APPROACH SLABS AND OVER CULVERTS

CONSTRUCTION NOTES

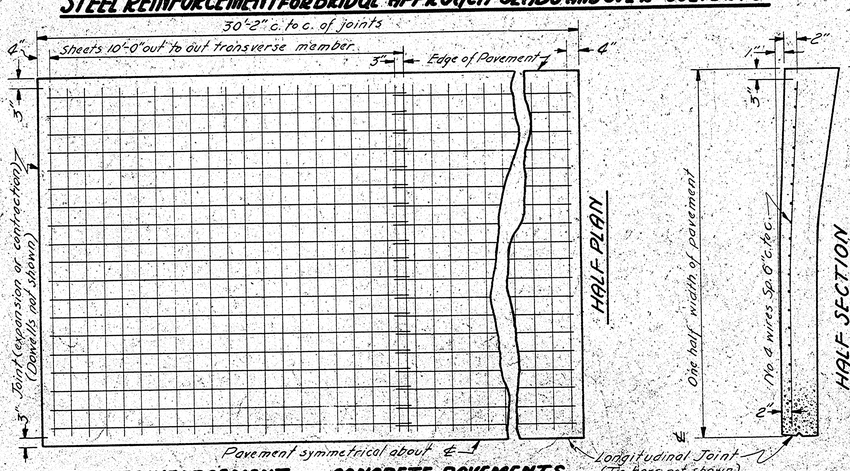
Details not covered on the plan shall conform to the pertinent requirements of the Standard Specifications of Road and Bridge Construction.

The diameter of all members shall be not less than 0.2253 inches. (No. 4-A.S.&E.W. Co. guage) and the fabric shall weigh not less than 58 pounds per 100 sq ft.

Longitudinal and transverse members of the fabric shall be spaced six (6) in. center to center and be rigidly welded at all intersections.

Spacing of pavement joints shall be modified that reinforced panels over culverts shall be centered over the structure and reinforced bridge approach slabs shall be full length (30'-2").

The use of sleds to support the fabric will not be permitted.



STEEL REINFORCEMENT FOR CONCRETE PAVEMENTS

C-43-1

STANDARD DESIGN REINFORCEMENT FOR BRIDGE APPROACH SLABS - OVER CULVERTS AND CONCRETE PAVEMENTS

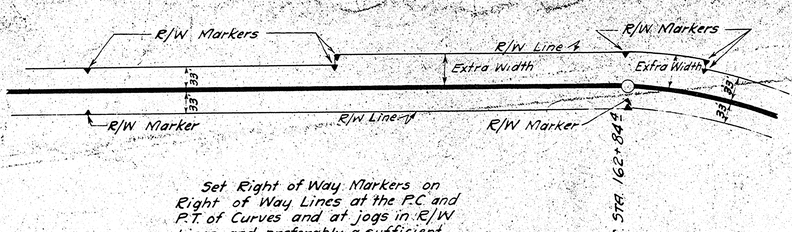
WISCONSIN HIGHWAY COMMISSION

Recommended for approval: A.T. Goudreau, CONSTRUCTION ENG'R.

Approved: W.C. Buetow, STATE HIGHWAY ENG'R.

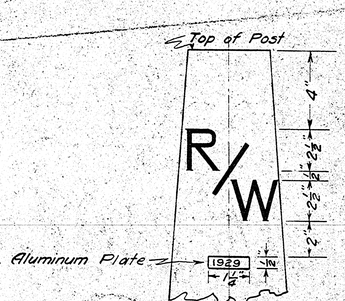
Date: 2/5/31

C-45

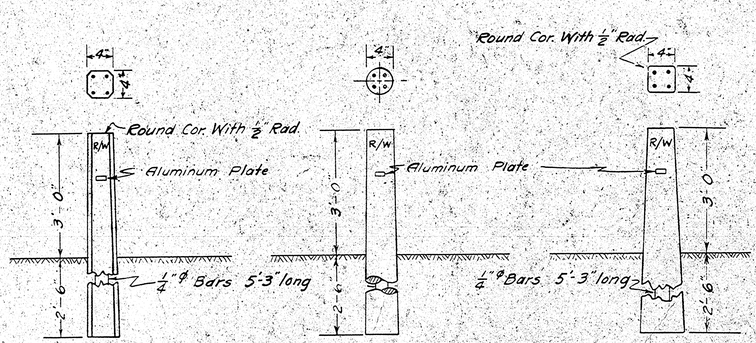


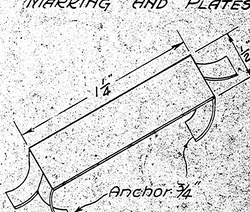
Set Right of Way Markers on Right of Way Lines at the P.C. and P.T. of Curves and at jogs in R/W Lines and preferably a sufficient number of intermediate markers so as to be visible from one to the next.
▲ R/W Markers

LAYOUT SHOWING LOCATION OF RIGHT OF WAY MARKERS



SECTION OF POST SHOWING MARKING AND PLATES





BLANK ALUMINUM PLATE NO. 1429 TO BE PLACED IN POST AT TIME OF MANUFACTURE. STAMP PLATE WITH YEAR OF CONSTRUCTION OF PROJECT.

GENERAL NOTES:
Cement, Aggregates, Reinforcing Steel and Water to conform to the requirements of the Standard Specifications of W.H.C.
Mixture to be used to be approved by the Engineer.

Markers to be set where shown on plan or directed by Engineer. The stamped side of marker to face the ℄ of the Highway. Set the back face of the marker on the Right of Way Line.
Design of post to be as shown or approved by Engineer.



DESIGN OF CONCRETE MARKER POSTS
POST TO BE REINFORCED WITH 4 ½" ROUND BARS OR THE EQUIVALENT

STANDARD DESIGN R/W MARKER POST

WISCONSIN HIGHWAY COMMISSION

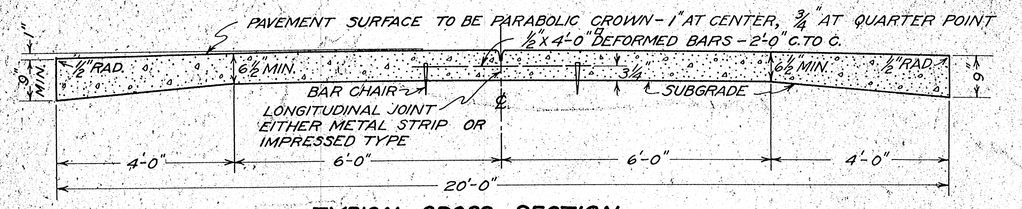
Recommended for Approval: A.T. Goudreau, CONSTRUCTION ENGINEER

Approved: W.C. Buetow, STATE HIGHWAY ENGINEER

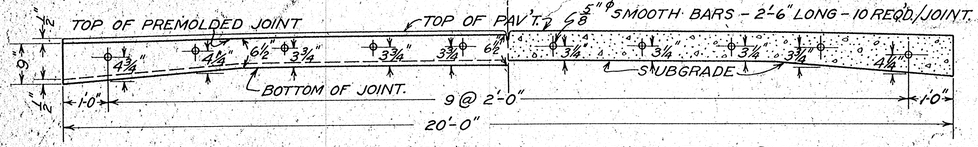
Date: 2/5/31

C-45

FED. ROAD DIST. NO.	STATE	AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.			

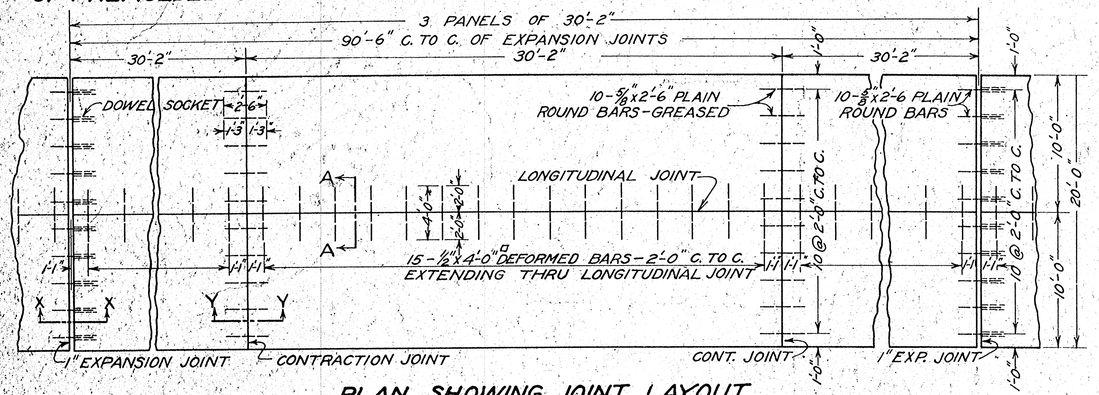


TYPICAL CROSS SECTION.
SECTION AREA = 11.68 SQ. FT.

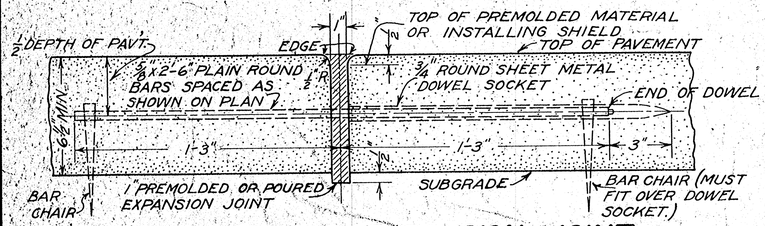


HALF SECTION SHOWING PUNCHING OF PREMOLDED JOINT FOR DOWELS.

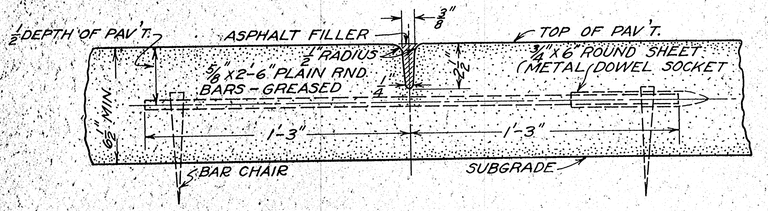
HALF SECTION SHOWING LOCATION OF DOWELS.



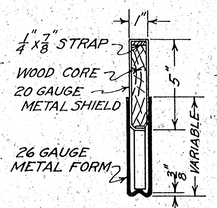
PLAN SHOWING JOINT LAYOUT.



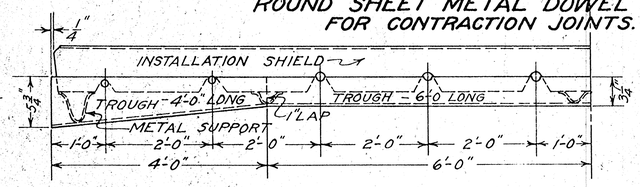
SECTION X-X EXPANSION JOINT.



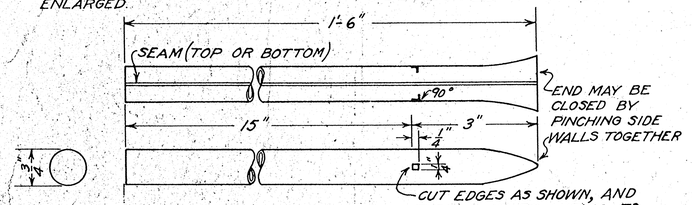
SECTION Y-Y CONTRACTION JOINT.



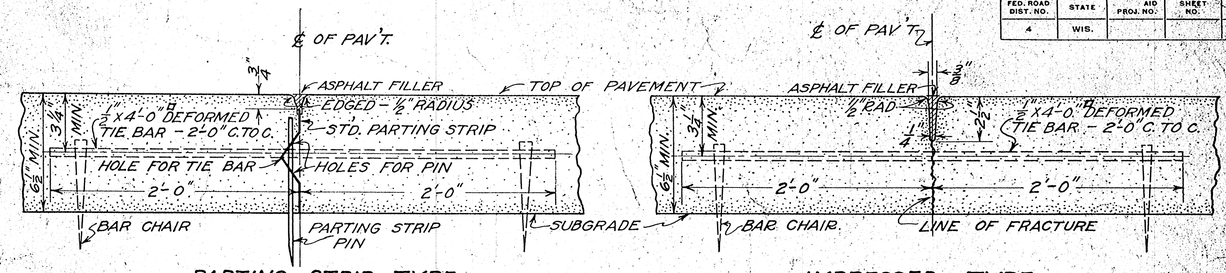
END VIEW.
ENLARGED.



INSTALLATION FORM FOR POURED EXP. JOINT.
SUGGESTED TYPE.

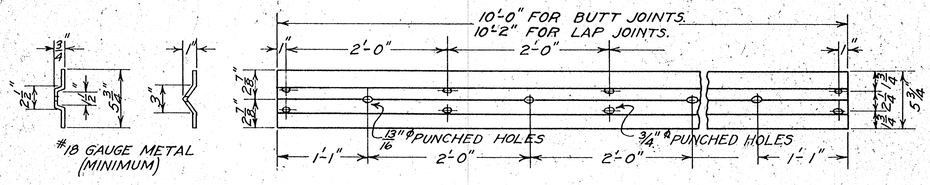


ROUND SHEET METAL DOWEL SOCKET.
FOR EXPANSION JOINT.

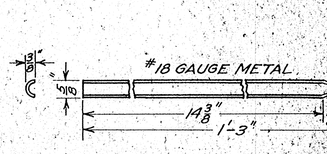


PARTING STRIP TYPE. IMPRESSED TYPE.

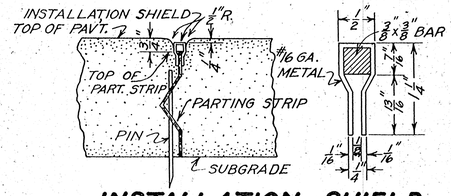
SECTION A-A ALTERNATE TYPES OF LONGITUDINAL JOINT.



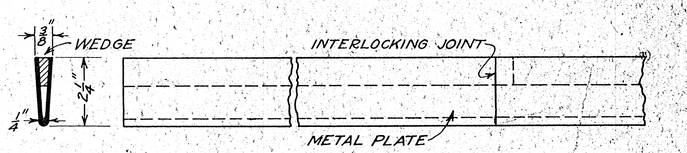
STD. PARTING STRIP FOR LONGITUDINAL JOINT.
SEE CONSTRUCTION NOTES.



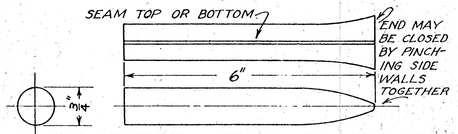
PARTING STRIP PIN.



INSTALLATION SHIELD.
FOR LONGITUDINAL JOINT (PART. STRIP TYPE)



TEMPORARY FILLER PLATE.
FOR CONTRACTION & LONGITUDINAL (IMPRESSED TYPE) JOINT.



ROUND SHEET METAL DOWEL SOCKET FOR CONTRACTION JOINTS.

CONSTRUCTION NOTES.

DETAILS OF CONSTRUCTION NOT COVERED ON THE PLAN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE CONCRETE AT ALL EXPANSION, LONGITUDINAL, AND CONTRACTION JOINTS, AND ALL EDGES OF SLAB EXCEPT WHERE LIP CURB IS USED SHALL BE FINISHED WITH AN EDGING TOOL TO THE RADIUS SHOWN AFTER THE FINAL BELTING.

JOINT SPACING SHALL BE AS SHOWN EXCEPT THAT SPACING MAY BE MODIFIED TO PROVIDE THAT PANELS OVER CULVERTS BE CENTERED OVER THE STRUCTURE, THAT PANELS ADJACENT TO BRIDGES BE THE LENGTH SHOWN, THAT BASINS FOR SURFACE DRAINS DO NOT SPAN THE JOINT, AND THAT MODIFICATION OF SPACING MAY BE MADE IN ADJACENT PANELS. SPACING SHALL BE SO MODIFIED THAT PANELS ARE NOT LESS THAN TWENTY (20) NOR MORE THAN FORTY (40) FEET IN LENGTH.

JOINTS SHALL BE CLEAN CUT AT ALL INTERSECTIONS WITH OTHER JOINTS AND AT THE EDGES OF THE SLAB.

ALL JOINTS SHALL BE FILLED AND REFILLED AS PROVIDED IN THE SPECIFICATIONS.

NO PARTING STRIP SHALL BE CONTINUOUS THROUGH EXPANSION AND CONTRACTION JOINTS.

BAR CHAIRS SHALL BE DRIVEN INTO THE SUBGRADE A SUFFICIENT DEPTH TO HOLD ALL DOWEL AND TIE BARS IN THE SPECIFIED POSITION; SPADE TYPE CHAIRS SHALL BE USED IF NECESSARY.

THE DESIGN OF PARTING STRIP, ITS DETAILS AND METHOD OF INSTALLATION SHALL BE IN ACCORDANCE WITH THE DESIGN SHOWN OR SHALL MEET THE APPROVAL OF THE ENGINEER.

TEMPORARY FILLER PLATES AND INSTALLATION SHIELDS AND FORMS SHALL BE THOROUGHLY CLEANED AND OILED EACH TIME USED.

NO LONGITUDINAL REINFORCEMENT SHALL EXTEND THROUGH TRANSVERSE EXPANSION OR CONTRACTION JOINTS.

WISCONSIN HIGHWAY COMMISSION

STANDARD DESIGN 20 FOOT PORTLAND CEMENT CONCRETE PAVEMENT WITH JOINT DETAILS.

CORRECT: H. H. Humbrecht, CONSTRUCTION ENGINEER

APPROVED: W. C. Brueton, STATE HIGHWAY ENGINEER 11/63

Revised 11/30

Drawn

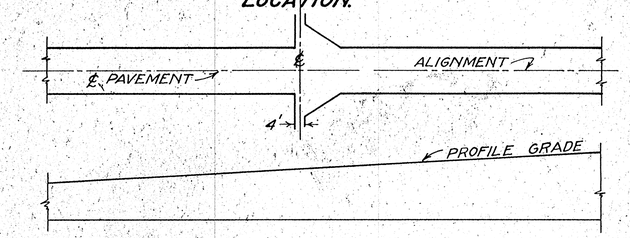
Checked

C-40

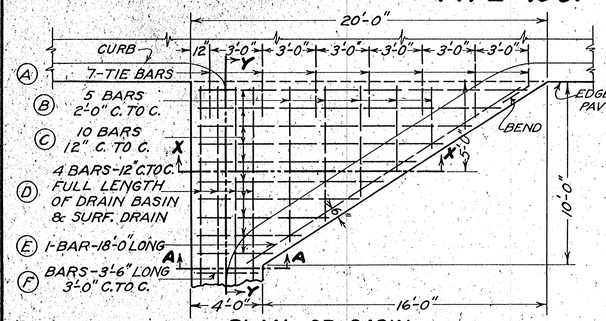
FED. ROAD DIST. NO.	STATE	AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WIS.			

SURFACE DRAIN ON GRADE.

LOCATION.



TYPE 10G.



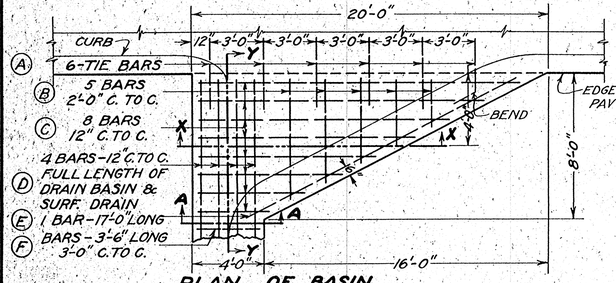
PLAN OF BASIN.

BILL OF BARS.
(INCLUDING TIE BARS)
ALL BARS ½"ϕ DEFORMED.

LET.	NUMBER & LENGTH	
A	7 @ 4'-0"	
B	1 @ 8'-6"	1 @ 4'-6"
	1 7'-0"	1 3'-6"
	1 6'-6"	
C	1 @ 18'-6"	1 @ 10'-6"
	1 17'-0"	1 9'-0"
	1 15'-0"	1 7'-6"
	1 13'-6"	1 5'-6"
	1 12'-0"	1 4'-0"
D	4 @ 12'-0"	
E	1 @ 18'-0"	
F	3'-6" LENGTH.	

CONC. IN BASIN 2.76 CU.YDS.
STEEL " " 201.0 LBS.

TYPE 8G.



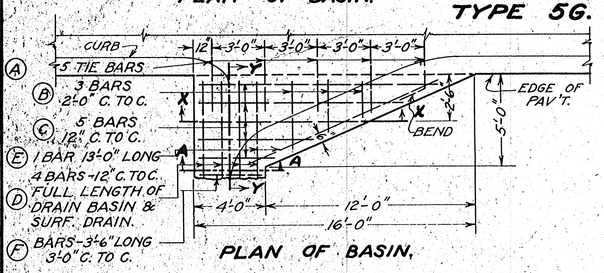
PLAN OF BASIN.

BILL OF BARS
(INCLUDING TIE BARS)
ALL BARS ½"ϕ DEFORMED.

LET.	NUMBER & LENGTH	
A	6 @ 4'-0"	
B	1 @ 6'-6"	1 @ 3'-6"
	1 5'-6"	1 @ 2'-6"
	1 4'-6"	
C	1 @ 18'-6"	1 @ 10'-0"
	1 16'-0"	1 8'-0"
	1 14'-0"	1 6'-0"
	1 12'-0"	1 4'-0"
D	4 @ 10'-0"	
E	1 @ 17'-0"	
F	3'-6" LENGTH.	

CONC. IN BASIN 2.21 CU.YDS.
STEEL " " 163.2 LBS.

TYPE 5G.

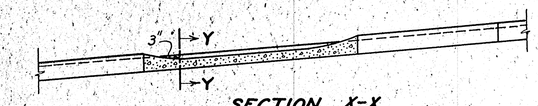


PLAN OF BASIN.

BILL OF BARS
(INCLUDING TIE BARS)
ALL BARS ½"ϕ DEFORMED.

LET.	NUMBER & LENGTH.		
A	5 @ 4'-0"		
B	1 @ 4'-0"	1 @ 3'-0"	1 @ 2'-0"
C	1 @ 14'-0"	1 @ 9'-6"	1 @ 4'-6"
	1 @ 11'-6"	1 6'-6"	
D	4 @ 7'-0"		
E	1 @ 13'-0"		
F	3'-6" LENGTH.		

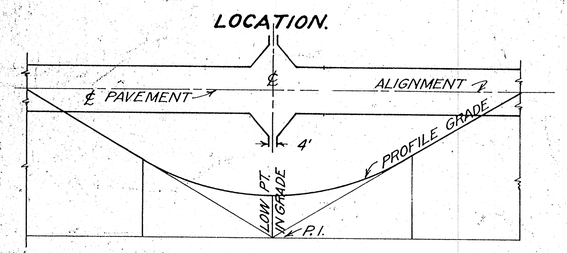
CONC. IN BASIN 1.17 CU. YDS.
STEEL " " 97.8 LBS.



SECTION X-X.

SURFACE DRAIN AT LOW POINT.

LOCATION.

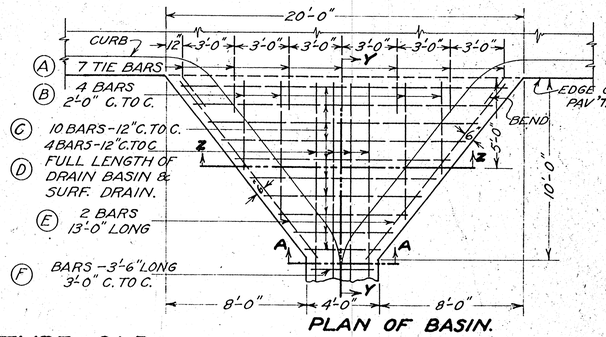


BILL OF BARS
(INCLUDING TIE BARS)
ALL BARS ½"ϕ DEFORMED.

LET.	NUMBER & LENGTH.	
A	7 @ 4'-0"	
B	2 @ 7'-0"	2 @ 4'-6"
C	1 @ 18'-6"	1 @ 10'-6"
	1 17'-0"	1 9'-0"
	1 15'-6"	1 7'-0"
	1 13'-6"	1 5'-6"
	1 12'-0"	1 4'-0"
D	4 @ 12'-0"	
E	2 @ 13'-0	
F	3'-6" LENGTH.	

CONC. IN BASIN 2.76 CU.YDS.
STEEL " " 201.9 LBS.

TYPE 10LP.



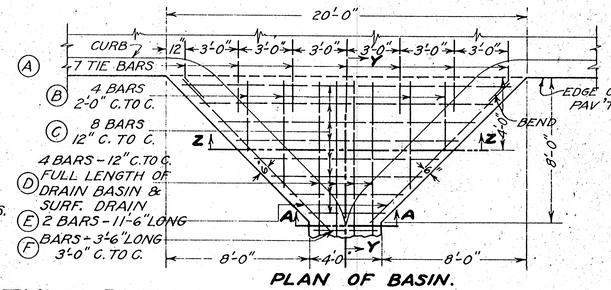
PLAN OF BASIN.

BILL OF BARS
(INCLUDING TIE BARS)
ALL BARS ½"ϕ DEFORMED.

LET.	NUMBER & LENGTH	
A	7 @ 4'-0"	
B	2 @ 6'-0"	2 @ 4'-0"
C	1 @ 18'-6"	1 @ 10'-0"
	1 16'-0"	1 8'-6"
	1 14'-0"	1 6'-0"
	1 12'-6"	1 4'-0"
D	4 @ 10'-0"	
E	2 @ 11'-6"	
F	3'-6" LENGTH.	

CONC. IN BASIN 2.21 CU. YDS.
STEEL " " 170.4 LBS.

TYPE 8LP.



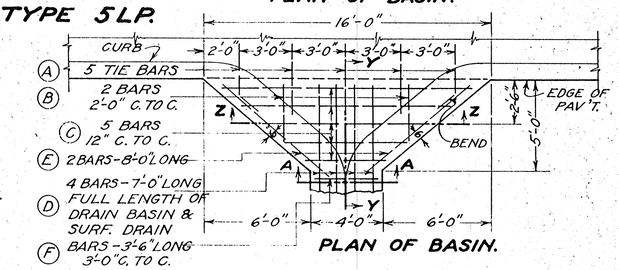
PLAN OF BASIN.

BILL OF BARS
(INCLUDING TIE BARS)
ALL BARS ½"ϕ DEFORMED.

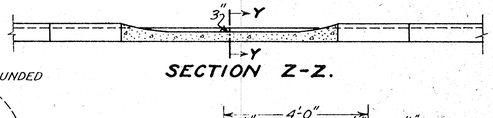
LET.	NUMBER & LENGTH.		
A	5 @ 4'-0"		
B	2 @ 3'-0"		
C	1 @ 14'-0"	1 @ 9'-6"	1 @ 4'-6"
	1 11'-6"	1 6'-6"	
D	4 @ 7'-0"		
E	2 @ 8'-0"		
F	3'-6" LENGTH.		

CONC. IN BASIN .117 CU. YDS.
STEEL " " 98.6 LBS.

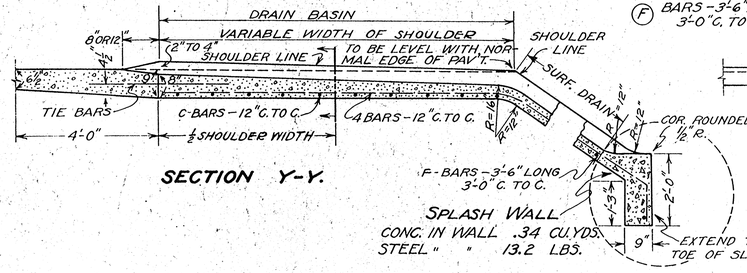
TYPE 5LP.



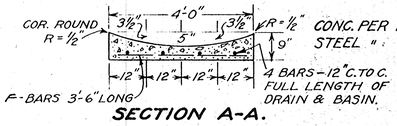
PLAN OF BASIN.



SECTION Z-Z.



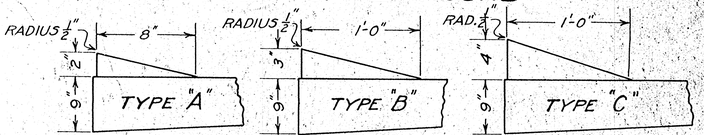
SECTION Y-Y.



CONC. PER F.T. - .073 CU. YDS.
STEEL " " - 4.39 LBS.

SECTION A-A.

TYPES OF LIP CURB

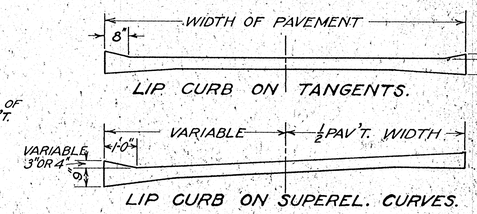


USE 2" CURB ON TANGENTS.

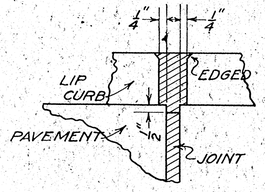
USE 3" CURB ON CURVES WITH .04 FT. PER FOOT SUPEREL. OR LESS.

USE 4" CURB ON CURVES WITH MORE THAN .04 FT. PER FOOT SUPEREL.

LIP CURB DETAILS.



DETAILS OF JOINT IN LIP CURB.



A JOINT IN THE LIP CURB TO BE PLACED OVER ALL CONTRACTION AND EXPANSION JOINTS IN THE SLAB AND FILLED WITH BITUMINOUS MATERIAL AT THE SAME TIME THE SLAB JOINTS ARE POURED. JOINT TO BE ½" WIDER THAN PAVEMENT JOINT.

CONSTRUCTION NOTES.

DETAILS NOT COVERED ON THE PLAN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION.

CONCRETE SURFACE DRAINS.

BASINS FOR SURFACE DRAINS SHALL NOT BE PLACED IN BRIDGE APPROACH SLABS, NOR SHALL A BASIN SPAN TRANSVERSE JOINTS IN THE PAVEMENT SLAB. SPACING OF TRANSVERSE JOINTS SHALL BE ADJUSTED WHEN NECESSARY.

SURFACE OF PAVEMENT SLAB ADJACENT TO BASIN TO BE SLOPED FROM A NORMAL THICKNESS OF SLAB 18" FROM THE EDGE TO 8" THICKNESS AT EDGE TO INSURE FLOWAGE INTO BASIN.

ALL REINFORCING AND TIE BARS TO BE ONE HALF (½) INCH DEFORMED.

LIP CURB.

WHEN DUE TO SUSPENSION OF POURING OPERATIONS, A PORTION OF THE LIP CURB CANNOT BE CONSTRUCTED MONOLITHIC WITH THE PAVEMENT SLAB, SUCH LIP CURB SHALL BE TIED TO THE PAVEMENT SLAB BY MEANS OF ONE QUARTER (¼) INCH BY EIGHT (8) INCH DEFORMED TIE BARS, OR 60 d. SPIKES SPACED ONE (1) FOOT C. TO C. APPROXIMATELY THREE (3) INCHES FROM THE EDGE OF THE SLAB.

DO NOT EDGE PAVEMENT WHERE LIP CURB IS CONSTRUCTED

LIP CURB SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL AS SHOWN.

WISCONSIN HIGHWAY COMMISSION

STANDARD DESIGN CONC. SURFACE DRAIN AND LIP CURB

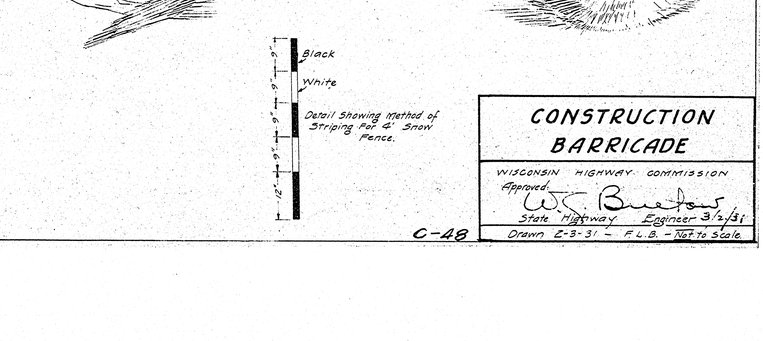
CORRECT: A. J. Hambuch
CONSTRUCTION ENGINEER

APPROVED: W. C. Brueton
STATE HIGHWAY ENGINEER 7/26/57

Drawn
Checked

C-42-1

Section of Snow Fence to be painted alternately black and white as shown below.
Length to be sufficient to reach from ditch to ditch.
To be erected on channel iron posts; Ends to be supported by 2 cedar posts & securely braced.
Standard "Road Closed" Sign (W.H.C.-R-6) to be erected on fence at top on centerline of road.



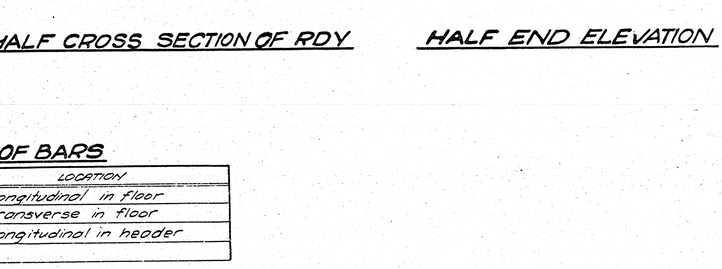


Detail Showing Method of Striping Ref. 2" Snow Fence.

CONSTRUCTION BARRICADE

WISCONSIN HIGHWAY COMMISSION
Approved
W. T. Bruton
State Highway Engineer 3/2/31
Drawn 2-3-31 – F.L.B. – Not to Scale

C-48



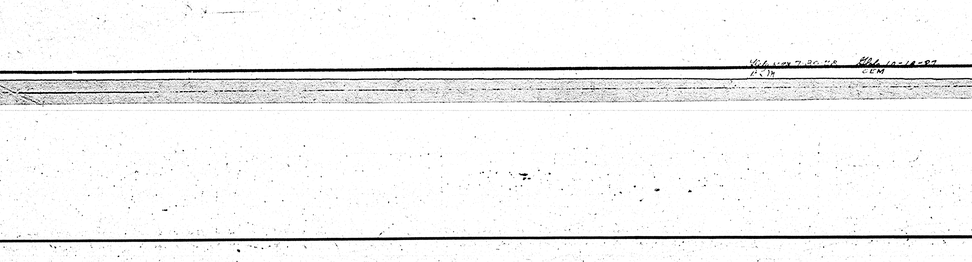
HALF SIDE ELEVATION HALF SECTION S1-S1

GENERAL NOTES

See "Special Provisions" for concrete proportions.
Bevel exposed edges of concrete 1".
Reinforcement shall be mechanical bond bars of net section equal to the area of bars specified.
All reinforcement shall be held in place by metallic bar chairs and spacers.
Expansion joint filler to be of an approved type.
⅝"ø dowel bars 3'-0" long shall be used between old and new work when old steel is not exposed at least 2'-0".
Old work shall be thorely roughened, cleaned and washed with water before new work is poured.

ESTIMATED QUANTITIES

Concrete: 4.7 Cu.Yds.
Reinforcing Steel: 550 #
Expansion Joint Filler: ¼"



HALF CROSS SECTION OF RDY HALF END ELEVATION

BILL OF BARS

No	MARK	SIZE	LENGTH	SPACING	LOCATION
52	S1	⅝"ø	9'-6"	3½" cts.	Longitudinal in floor
18	S2	½"ø	7'-6"	10" cts.	Transverse in floor
2	S3	½"ø	9'-6"	Shown	Longitudinal in header

PROJECT NO.
DIVISION JOB NO. 3400
BRIDGE JOB NO. B-5188

WISCONSIN HIGHWAY COMMISSION
REINFORCED CONCRETE SLAB
FOR THE
STA. 29+70 BRIDGE
TOWN OF OSHKOSH - WINNEBAGO CO.

CORRECT:- G. J. Kirsch
BRIDGE ENGINEER

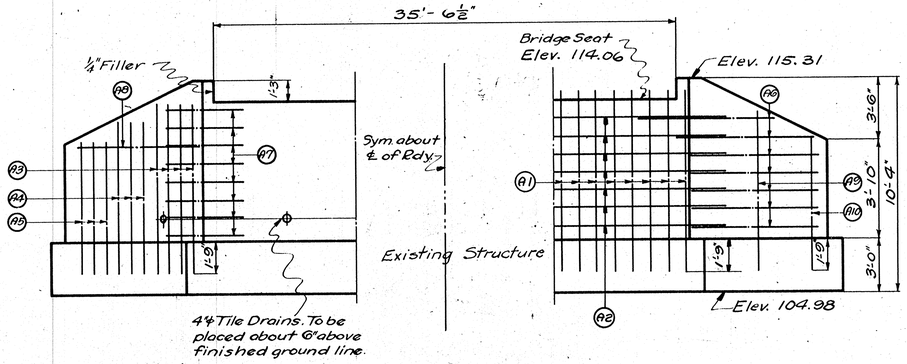
APPROVED:- 2-28-31 W. T. Bruton
STATE HIGHWAY ENGINEER
DRAWN EMK
CHECKED A.H.M.

M-2344

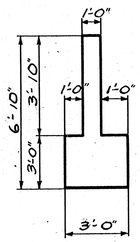
FED. ROAD DIST. NO.	STATE	FED. RD. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	WIS.	3400		17.	52

WISCONSIN PROJECT No.
DIVISION JOB No. 3400

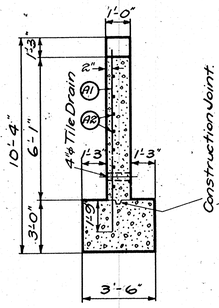
I-BEAM & SLAB SPAN ABUTMENTS.
For heights up to and including 12'-0"
For Slab Spans - Parapet notch = out to out of railings + 4½"
For I-Beam Spans - Parapet notch = out to out of curbs + 10½"



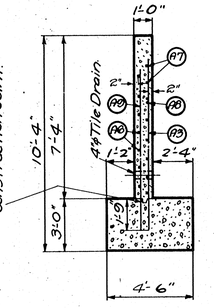
FRONT ELEVATION.



END VIEW OF WINGS.



SECTION A1-A1

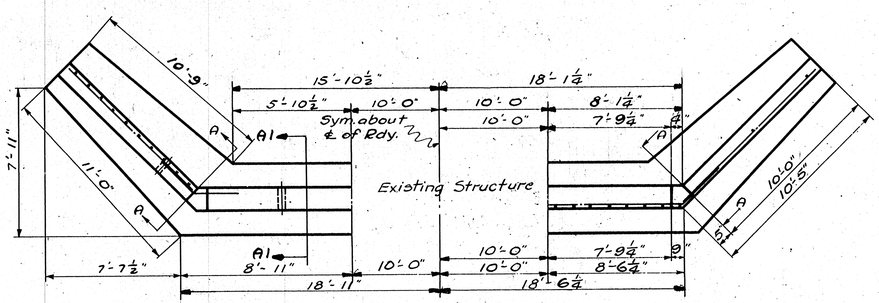


SECTION A-A.



DETAIL OF CONSTRUCTION JOINT.

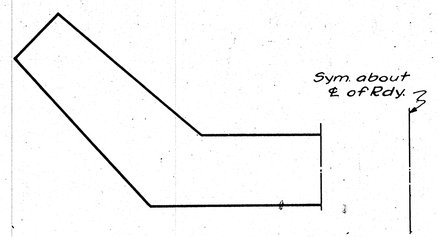
See Specifications under "Depositing Concrete."



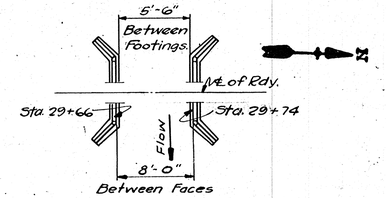
Showing Footing Dimensions, Drains and Reinforcement in Back Face.

Showing Neatwork Dimensions and Reinforcement in Front Face.

PLAN.



HALF FOOTING PLAN.



LOCATION DIAGRAM.

BILL OF BARS.

NO.	MARK	SIZE	LENGTH	SPACING	LOCATION
36	A1	½" ø	8'-6"	1'-0" cts.	Vertical in body. (Front face)
24	A2	½" ø	11'-0"	1'-0" cts.	Horizontal in body (Front face)
16	A3	½" ø	7'-6"	1'-0" cts.	Vertical in wings. (Back face)
12	A4	½" ø	6'-6"	1'-0" cts.	Vertical in wings. (Back face)
12	A5	½" ø	5'-6"	1'-0" cts.	Vertical in wings. (Back face)
24	A6	½" ø	10'-0"	1'-0" cts.	Horizontal in wings (Front face)
24	A7	½" ø	5'-0"	1'-0" cts.	Horizontal in corners (Back face)
4	A8	½" ϕ	10'-0"	shown.	Horizontal in wings. (Back face)
4	A9	½" ϕ	7'-0"	shown.	Vertical in wings. (Front face)
4	A10	½" ϕ	6'-0"	shown.	Vertical in wings. (Front face)

GENERAL NOTES.

See "Special Provisions" for concrete proportions.

Bevel exposed edges of concrete 1".

Reinforcement shall be mechanical bond bars of net section equal to the area of bars specified.

⅝" ϕ dowel bars 3'-0" long shall be used between old and new work when old steel is not exposed at least 2'-0".

Old work shall be thoroly roughened, cleaned and washed with water before new work is poured.

All excavation on this structure shall be classified as "Dry Excavation."

SUPERSTRUCTURE - ONE SPAN - M 2344

ESTIMATED QUANTITIES.

Concrete:	45.7	Cu. Yds.
Reinforcing Steel:	1080	#
Tile Drains - 4" ϕ:	8	Lin. Ft.
Waterproofing:	500	Sq. Ft.
Dry Excavation:	60	Cu. Yds.

BRIDGE JOB No. B-8188

WISCONSIN HIGHWAY COMMISSION
REINFORCED CONCRETE ABUTMENTS FOR THE
STA. 29+70 BRIDGE
TOWN OF OSHKOSH - WINNEBAGO CO.

CORRECT: C. N. Kinsel
BRIDGE ENGINEER

APPROVED: 2-24-27 W. T. Bruton
STATE HIGHWAY ENGINEER

Drawn Sack
Checked C. A. M.

Rev. A.??? 7-15-28. C.E.M. 11-1-26.
L.W.F.

X 3952

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	10	52
	DIVISION	JOB NO.	3400	

END AREA — YARDAGE

STATION	CUT: EARTH	CUT: ROCK	FILL	DISTANCE	CUT: EARTH	CUT: ROCK	CUT: L. ROCK	CUT: S. ROCK	TOTAL	TOTAL FILL
5	42		9							50
6	28		18	100	70					63
7	26		16	100	67					82
8	21		25	100	47					100
9	20		26	100	41					91
10	22		23	100	42					88
11	17		21	100	39					72
12	29		15	100	46					61
TOTAL				600	312					507

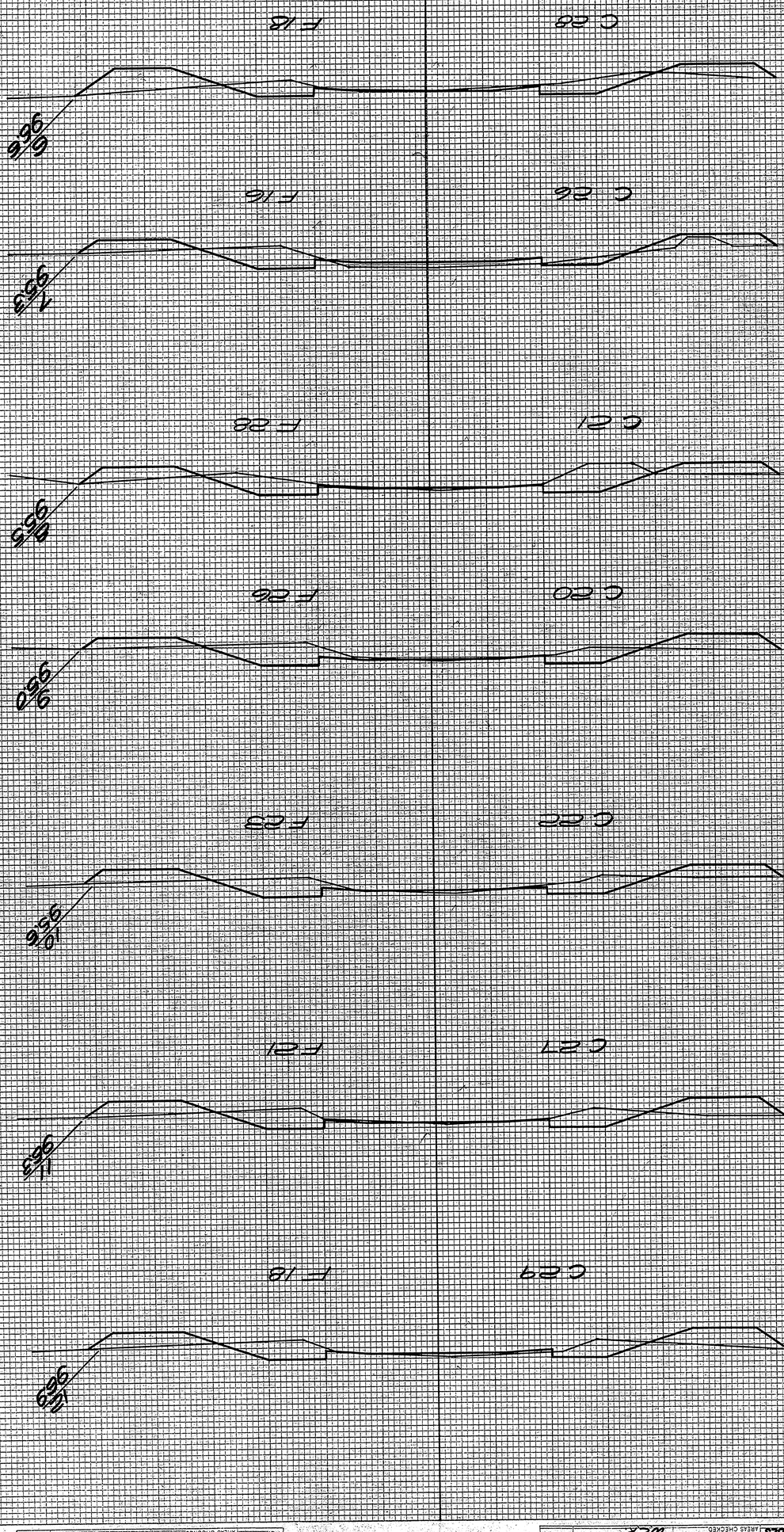


PLATE 3—CROSS SECTION O. P. R. & B. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

ORIGINAL	BY	DATE
SURVEY	ASHOE BULLSTEER Asst. Engr.	
NOTE BOOK No. 5823		

FINAL	BY	DATE
SURVEY		
NOTE BOOK No.		

FED. ROAD DIST. NO.	STATE	C.O. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	20	52
	DIVISION	JOB NO. 3400		

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL
12	29		18						
				83					83
13	16		27						
				52					125
14	12		42						
				50					141
15	15		34						
				120					72
16	50		5						
				119					75
17	14		37						
				54					142
18	15		41						
				41					170
19	7		31						
TOTAL					519				816

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

ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO. 5823	
AREAS CHECKED	W.C.K.
DATE	
BY	

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	21	52

DIVISION JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL FILL
19	7		51						
				208					92
20	103		0						
				475					0
21	153		0						
				380					13
22	52		7						
				126					74
23	16		33						
				48					100
24	10		41						
				20					183
25	1		54						
				37					150
26	19		27						
				141					54
27	57		2						
TOTAL				1438					712

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

ORIGINAL SURVEY — SURVEYED; PLOTTED; TEMPLATE; AREAS CHECKED; DATE; BY; NOTE BOOK NO. 5823; GATTIS, BAILEY, WCK

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	22	52
	DIVISION	JOB NO.	3400	

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	YARDAGE CUT DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE TOTAL FILL
27	57	2							
				219					7
28	61	2							
				133					76
29	11		39						
				20					219
30	0		79						
				4					278
31	2		71						
				33					143
32	16		6						
				80					63
33	27		28						
				157					65
34	58		7						
TOTAL					646				951

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK 323	
AREAS	
AREAS CHECKED	

BY BISHOP BALLISTER BLAIR W&C

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	23	52
	DIVISION	JOB NO.	3400	

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
FIELD NOTE BOOK	BY
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK No. 5823	BY POTTER BISHOP & WCAC
AREAS CHECKED	

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL
34	58		7						
					224				84
35	63		6						
					189				30
36	39		10						
					126				59
37	29		19						
					106				69
38	28		18						
					85				94
39	18		33						
					50				170
40	9		59						
					61				193
41	24		45						
TOTAL					841				634

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	24	52
	DIVISION	JOB NO.	3400	

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

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — NOTE BOOK — NO. 5823 — AREAS CHECKED — BY BISHOP BOLLISTER & Shaw W.C.K. — DATE

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT 1 ROCK	YARDAGE CUT 3 ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL FILL
41	24		45						
				70					94
42	14		6						
				124					11
43	53		0						
				220					0
44	66		0						
				263					0
45	76		0						
				226					0
46	46		0						
				119					6
47	18		3						
				65					61
48	17		34						
				67					130
49	20		36						
TOTAL					1156				310

PLATE 3—CROSS SECTION - O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	25	52
	DIVISION	JOB NO.	3400	

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT LOOSE ROCK	YARDAGE CUT SPECIAL	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL
49	20		36						
				69					92
50	17		15						
				37					80
51	3		28						
				35					83
52	10		17						
				54					72
53	13		22						
				33					98
54	5		31						
				24					113
55	0			TOTAL 252					540
				30 MILE @ 5792					4677
56	13		22						
				39					86
57	20		4						
				61					28
58	36		3						
				104					13
TOTAL				904					1577

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

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK 3823, NO., DATE, BY BISHOP HALLSTROM & SHOP W.C.F., AREAS CHECKED

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	26	52

DIVISION JOB NO. 3400

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

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NOTE BOOK NO. 583	

BY BISHOP, HALLISEY, BRAUN, INC.

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	YARDAGE CUT DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE TOTAL FILL
58	36		3						
				122					6
588	30		0						
				83					7
59	15		4						
				83					7
60	30		0						
				80					39
61	13		21						
				57					107
62	18		37						
				56					141
63	12		39						
				61					124
64	21		28						
				117					83
65	42		17						
TOTAL				659					514

C 11

C 12

C 13

C 14

C 15

C 16

C 17

C 18

C 19

C 20

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	27	52
	DIVISION JOB NO.		3400	

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO. 5823	AREAS	BISHOP ROLLSTER BRIDGE	
	AREAS CHECKED	W.C.A.C.	

STATION	END AREA CUT EARTH	ROCK	FILL	DISTANCE	YARDAGE CUT EARTH	L. ROCK	S. ROCK	TOTAL	FILL
65	42	17							
				139					58
66	33	15							
				117					50
67	30	12							
				115					33
68	32	6							
				133					17
69	40	3							
				126					20
70	28	8							
				122					39
71	38	13		109					80
72	21	30							
TOTAL				961					296

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	28	52
	DIVISION	JOB NO. 3400		

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT ROCK & RIPRAP	YARDAGE TOTAL	YARDAGE TOTAL FILL
72	21		30					
				56				135
73	9		43					
				22				189
74	3		59					
				32				196
75	14		47					
				67				135
76	22		25					
				78				78
77	20		17					
				70				89
78	18		31					
				65				132
79	17		40					
TOTAL					390			952

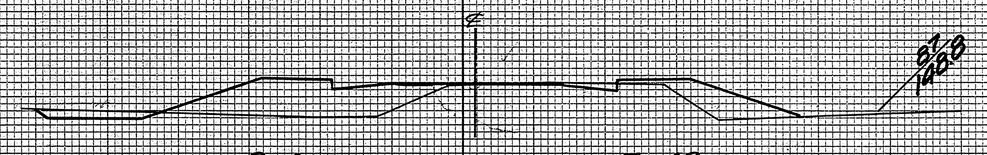
FINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
NO.
DATE
AREAS CHECKED

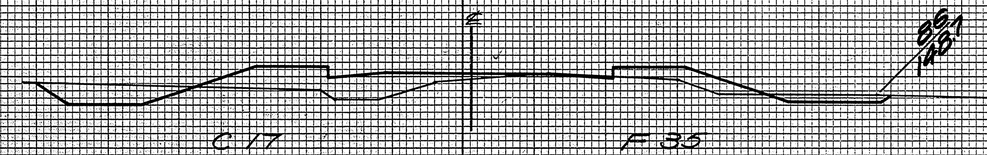
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SURVEYED 8/31/32
PLOTTED 9/22/32
NOTE BOOK Backup
NO. 2023
AREAS CHECKED W.C.E.

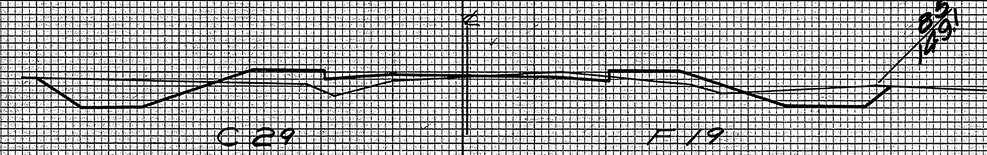
PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

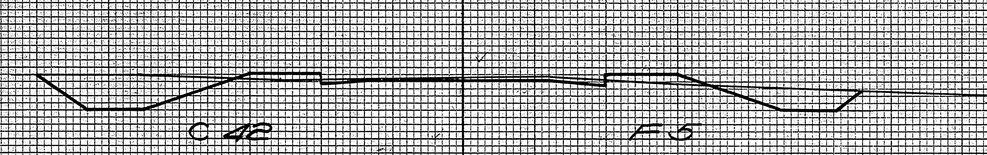
ORIGINAL SURVEY		BY	DATE
	SURVEYED	BISHOP HOLLISTER Bishop II	
NOTE BOOK 5823	PLOTTED		
	TEMPLATE		
	AREAS	W.C.K.	
	AREAS CHECKED		

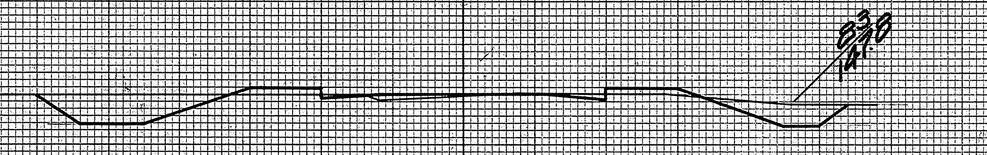
FINAL SURVEY		BY	DATE
	SURVEYED		
NOTE BOOK	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

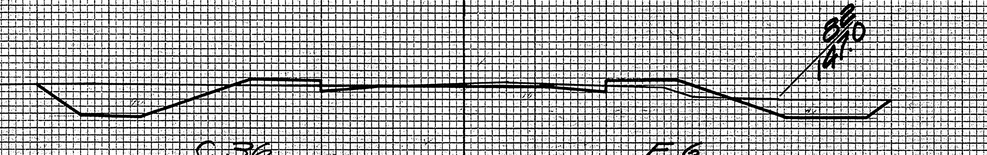


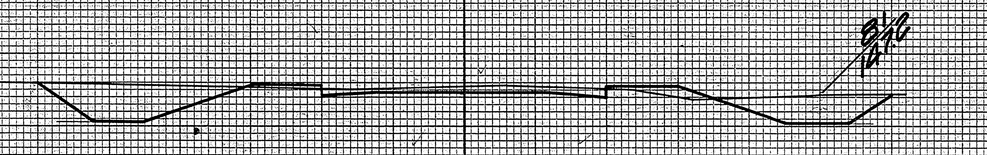












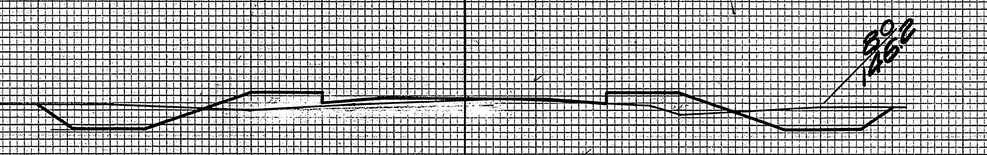


PLATE 3 - CROSS SECTION - U. S. R. & E. STANDARD
J. MICHEL & CO. PUB. CO., NEW YORK

STATION	END AREA CUT	YARDAGE CUT	YARDAGE FILL
79 17	40	82	
80 27	19	1823	
81 50	4	1523	
82 36	6	1522	
83 30	5	1522	
84 42	5	1533	
85 29	19	1532	
86 17	55	835	
87 6	49	653	
TOTAL			

FED. ROAD DIST. NO. 4 | STATE WISC. | DIVISION | COUNTY NO. 3400 | JOB NO. 3400 | SHEET NO. 29 | TOTAL SHEETS 52

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	30	52

DIVISION JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT ROCK	YARDAGE FILL STATION	YARDAGE FILL TOTAL
87	6		44					
				113				98
88	55		2					
				213				7
89	60		2					
				117				96
90	3		50					
				6				209
91	0		63					
				67				169
92	36		25					
				143				59
93	41		7					
				252				13
94	93		0					
				522				0
95	187		0					
TOTAL					1433			641

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

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK 523, TEMPLATE, AREAS, AREAS CHECKED, BY BUSTOP BALLSTER BUCHER W.C.E.K., DATE

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	31	52

DIVISION JOB NO. 3400

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

ORIGINAL SURVEY — BY DISTRICT ENGINEER W.C.K. — DATE
SURVEYED
PLOTTED
NOTE BOOK — TEMPLATE
NO. 5823 — AREAS CHECKED

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	YARDAGE DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT LOOSE ROCK	YARDAGE CUT TOTAL	YARDAGE TOTAL FILL
95	187	0						
				66	661			0
96	170	0						
				41	411			4
97	52	2						
				96				189
98	0	100						
				0				422
99	0	128						
				0				424
100	0	101						
				0				320
101	0	72						
				37				222
102	20	48						
				126				98
103	48	5						
TOTAL					1231			1679

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	32	52

DIVISION 3 JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE TOTAL	YARDAGE TOTAL FILL
103	48		5						
					256				9
104	88		0						
					476				0
105	170		0						
					631				0
106	171		0						
					570				0
				TOTAL	1931				9
107	137		0						
MILE ②					1108			4756	
108	27		8						
					304				15
109	0		84						
					50				170
110	0		134						
					0				402
111	0		164						
					0				552
TOTAL					3554				1147

C 0

C 0

C 0

C 22

C 151

C 111

C 170

C 88

E 0

E 0

E 0

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	2400	33	52
	DIVISION	JOB NO.	3402	

FINAL SURVEY	SURVEYED	DATE
	PLOTTED	
NOTEBOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	BY BISTOR & STREE
	PLOTTED	BISTOR
NOTE BOOK NO. 323	TEMPLATE	
	AREAS	WCK
	AREAS CHECKED	

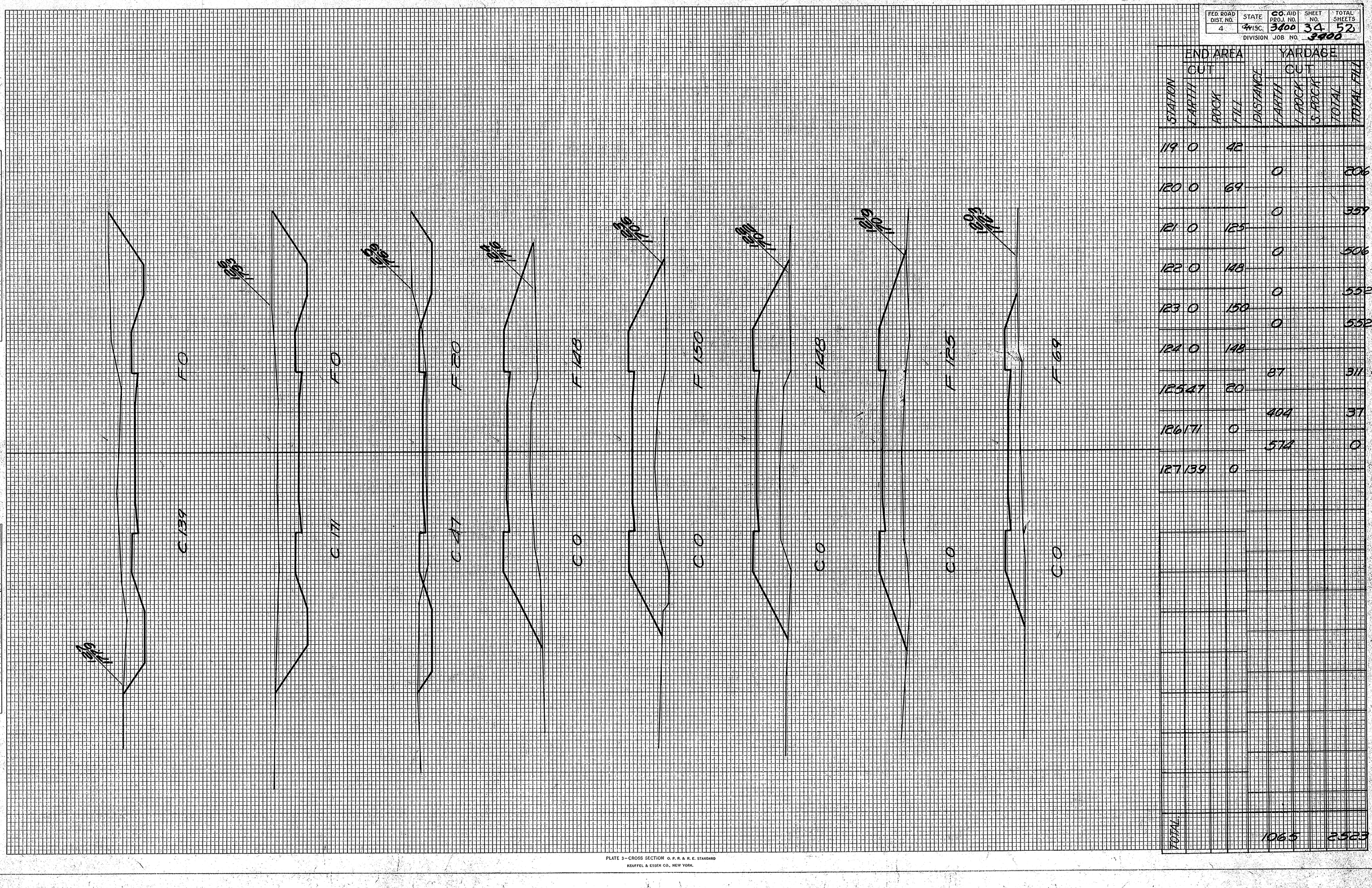
C 0
C 118
C 0
C 0
C 0

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	34	52

DIVISION JOB NO. 3400

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

ORIGINAL SURVEY
NOTE BOOK 523
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
DATE
BY
BISTOP
POWELSTEIN
BAUER
W.C.K.



STATION	END AREA CUT EARTH	CUT ROCK	FILL	DISTANCE	YARDAGE CUT EARTH	CUT L. ROCK	CUT S. ROCK	CUT TOTAL	FILL TOTAL
119	0		42						
				0					206
120	0		69						
				0					357
121	0		125						
				0					506
122	0		148						
				0					532
123	0		150						
				0					532
124	0		148						
				87					311
125.47	20								
				404					37
126.71	0								
				574					0
127.39	0								
TOTAL								1065	2523

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	35	52

DIVISION JOB NO. 13400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL
127	139	0							
					415				0
128	85	0							
					250				9
129	50	5							
					208				15
130	62	2							
					180				33
131	35	16							
					109				89
132	24	32							
					94				115
133	27	30							
					154				63
134	56	4							
					252				7
135	80	0							
TOTAL					1662				329

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	36	52

DIVISION JOB NO. 3400

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

ORIGINAL SURVEY	BY	DATE
SURVEYED	BISTROP & HOLMSTEDT	
PLOTTED	B.H.J.S.	
TEMPLATE		
NOTE BOOK		
NO. 5923		
AREAS CHECKED	W.C.K.	

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL FILL
135 80	0								
				322					0
136 94	0								
				296					0
137 66	0								
				167					50
138 24	27								
				63					178
139 10	69								
				28					241
140 5	61								
				21					199
141 17	46								
				69					129
142 20	32								
TOTAL								986	811

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	37	52
	DIVISION	JOB NO. 3400		

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT ROCK	YARDAGE CUT SPECIAL	YARDAGE CUT TOTAL	YARDAGE TOTAL FILL
142	20		32						
				37					174
143	0		62						
				80					154
144	43		21						
				137					99
145	31		30						
				94					119
146	20		34						
				70					117
147	18		29						
				76					104
148	23		27						
				128					82
149	46		17						
TOTAL					622				849

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREAS CHECKED, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK No. 523, AREAS CHECKED, BY BISTOR, DATE 8/31/05, WCK

PLATE 3—CROSS SECTION C. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	38	52

DIVISION JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL
149	46		17						
				148					72
150	34		22						
				94					87
151	17		25						
				54					104
152	12		31						
				63					93
153	22		19						
				72					83
154	17		26						
				50					102
155	10		29						
				54					65
156	19		6						
TOTAL								535	606

FINAL SURVEY
DATE
BY
SURVEYED
PLOTTED
J.S. & L.
NOTE BOOK
NO.
TURNETED
PLOTTED
J.S. & L.
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY
DATE
BY
SURVEYED
PLOTTED
J.S. & L.
NOTE BOOK
NO. 5923
TURNETED
PLOTTED
J.S. & L.
TEMPLATE
AREAS
AREAS CHECKED

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	39	52

DIVISION JOB NO. 3400

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

ORIGINAL SURVEY	
SURVEYED	BISHOP, SULLIVAN & ASSOC.
PLOTTED	
TEMPLATE	
NOTE BOOK	323
AREAS	
AREAS CHECKED	
NO.	
DATE	
BY	WIS.

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE TOTAL FILL
156	19	6							
				78					22
157	23	6							
				163					11
158	65	0							
				311					0
159	103	0							
				365					0
160	92	0		TOTAL 917					33
MILE (3)				8264					7657
161	38	13		249					24
				128					189
162	31	35							
				96					141
163	21	41							
TOTAL								468	434

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	40	52
	DIVISION JOB NO.	3400		

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

ORIGINAL SURVEY	
	SURVEYED BISHOP
	PLOTTED ALLISTER
NOTE BOOK	TEMPLATE BRANDT
NO. 5823	AREAS W.C.K.
DATE	
BY	

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	YARDAGE DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL
163	21		41						
				70					148
164	17		39						
				35					176
165	2		56						
				22					183
166	10		43						
				50					150
167	17		38						
				57					150
168	14		43						
				70					148
169	24		37						
				63					172
170	10		56						
TOTAL								367	1127

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KELLFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	41	52

DIVISION JOB NO. 3400

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

ORIGINAL SURVEY	SURVEYED	DATE
	PLOTED	BY
	TRIPLICATE	
NOTE BOOK 323	AREAS	
NO.	AREAS CHECKED	

BISHOP GISHOLT CO. W.C.L.

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT ROCK & RACIN	YARDAGE TOTAL	YARDAGE TOTAL FILL
170	10		56					
				24				257
171	3		83					
				59				208
172	29		29					
				165				54
173	60		0					
				306				0
174	105		0					
				320				6
175	68		1					
				180				28
176	29		14					
				137				39
177	45		7					
TOTAL							1191	588

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	42	52
	DIVISION	JOB NO. 3400		

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT ROCK	YARDAGE FILL TOTAL	YARDAGE TOTAL FILL
177	45		7					
				165				33
178	44		11					
				132				67
179	27		25					
				67				154
180	9		58					
				17				239
181	0		71					
				15				219
182	8		47					
				32				152
183	9		37					
				26				137
184	5		37					
TOTAL				454				1005

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

ORIGINAL SURVEY
SURVEYED BISTROP
PLOTTED HOLLISTER
NOTE BOOK BISHOP
NO. 5823
AREAS W.E.K.
BY
DATE

PLATE 3—CROSS SECTION D. F. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	43	52

DIVISION JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE TOTAL FILL
184	5		37						
				33					157
185	13		48						
				52					163
186	10		40						
				89					111
187	33		20						
				298					37
188	128		0						
				593					0
189	192		0						
				546					0
190	103		0						
				281					6
191	29		3						
TOTAL				1892					474

ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED	DATE
NOTE BOOK 5223	BISHOP	BOZZUYE	BISHOP	W.E.K.	
NO. 5223					

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

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	44	52

DIVISION JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL FILL
191	49		3						
					120				10
192	16		35						
					41				196
193	6		71						
					24				259
194	7		66						
					35				200
195	12		44						
					33				198
196	6		63						
					37				183
197	14		36						
					91				82
198	35		8						
TOTAL					391			1167	

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

ORIGINAL SURVEY
NOTE BOOK 1 BRIDGE
NO. 5823
SURVEYED BISHOP
PLOTTED HOLLISTER
TRACED BRIDGE
AREAS CHECKED W.C.K.
BY
DATE

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	45	52

DIVISION JOB NO. 3400

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

ORIGINAL SURVEY	DATE
SURVEYED	BISHOP HOLLISTER & ASSOC.
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO. 5923	AREAS CHECKED W.C.K.

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT LEDGE ROCK	YARDAGE CUT BOULDERS	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL
198 35	8								
				132					28
199 67	7								
				182					22
200 51	5								
				224					9
201 70	0								
				263					0
202 72	0								
				202					30
203 37	16								
				91					107
204 12	42								
				33					143
205 6	35								
TOTAL					1147				339

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	46	52
	DIVISION	JOB NO.	3400	

STATION	END AREA CUT	END AREA FILL	YARDAGE CUT	YARDAGE FILL	YARDAGE CUT ROCK	YARDAGE FILL SHRINKAGE	YARDAGE TOTAL FILL	YARDAGE TOTAL CUT
205 6	35		57					98
206 25	18							
			82					70
207 19	20							
			50					150
208 8	61							
			15					307
209 0	105							
			21					235
210 22	22							
			107					69
211 36	15							
			137					46
212 38	10							
TOTAL			489					975

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

ORIGINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
NO. 5823
AREAS
AREAS CHECKED
DATE
BY
BARTOS
ASSISTANT
WCK

PLATE 3 – CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	47	52

DIVISION JOB NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT ROCK	YARDAGE CUT TOTAL	YARDAGE TOTAL FILL
C12 38			10					
					200			19
			TOTAL		200			19
C13 70			0					
				MILE (4)	6589		5968	
C14 99			0		313			0
					333			0
C15 81			0					
					165			82
C16 8			44					
					33			148
C17 10			36		48			133
C18 16			36					
					56			130
C19 14			34					
TOTAL					949			493

C17 C16 C15 C14 C13 C12

C18 C19 C20

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

ORIGINAL SURVEY	BY
SURVEYED	BISHOP
PLOTTED	BULKSIZE
SCALE	8" = 40'
NOTE BOOK	WLC
NO. 323	AREAS CHECKED
DATE	

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO. NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	48	52
	DIVISION	JOB NO.	3400	

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL
219 11	34								
				59					106
220 13	63								
				69					106
221 13	34								
				67					137
222 17	40								
				54					161
223 12	47								
				46					156
224 13	37								
				163					10
225 76	1								
				4106					2
226 1111	0								
TOTAL								864	738

C 22

C 23

C 24

C 25

C 26

C 27

C 28

C 29

C 30

ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	NOTE BOOK	AREAS CHECKED
	BY	DATE			
	Bishop Fullerton Bishop W.C.K.			No. 923	

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

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	49	52
	DIVISION	JOB NO. 3400		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
FIELD BOOK		
NOTE BOOK		
NO.	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED	Bishop Peterson	
PLOTTED	Sullivan	
FIELD BOOK		
NOTE BOOK 5823	AREAS W.C.R.	
	AREAS CHECKED	

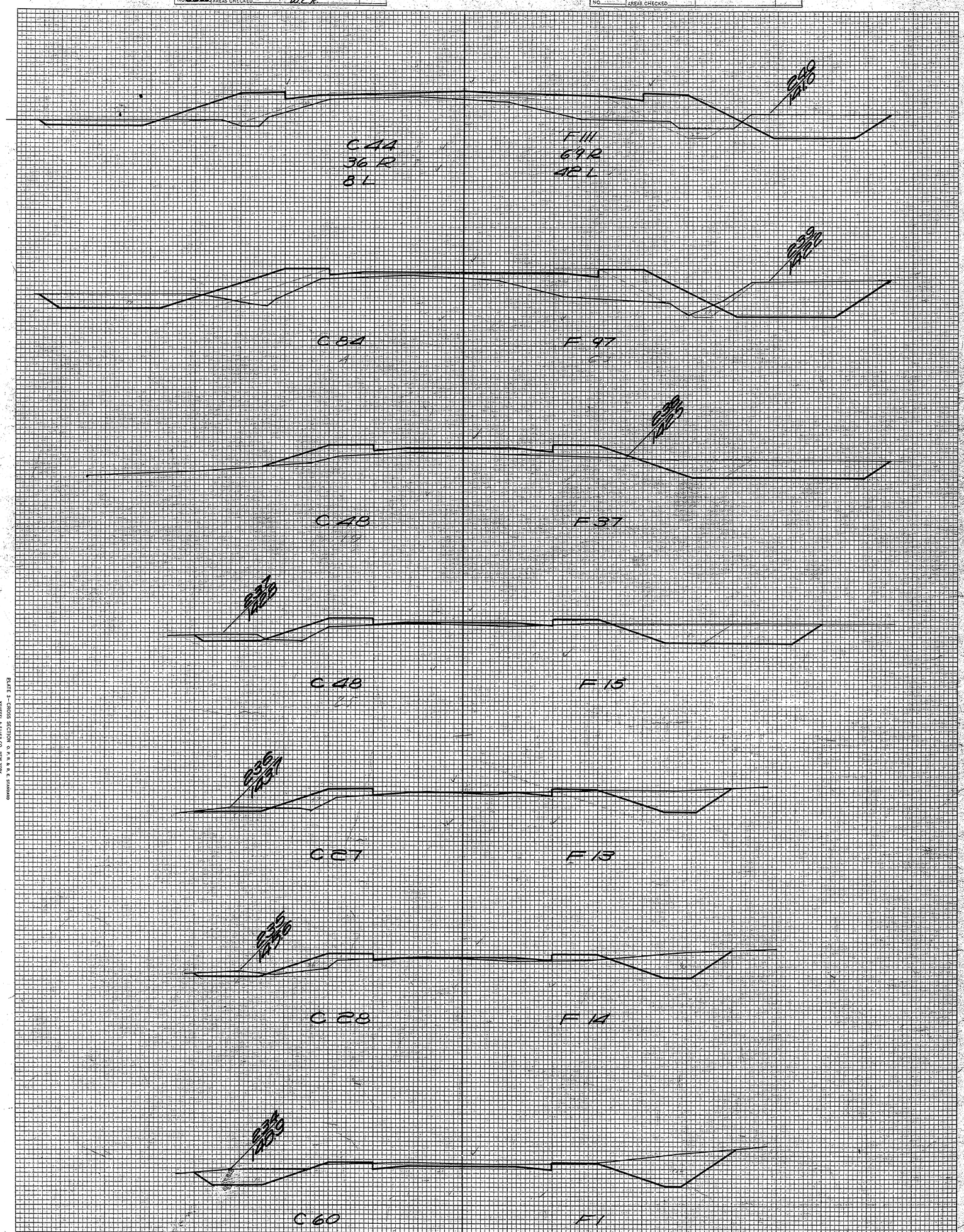
STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT L. ROCK	YARDAGE CUT S. ROCK	YARDAGE CUT TOTAL	YARDAGE FILL TOTAL FILL
226 144	0								
				496					0
227 124	0								
				602					0
228 201	0								
				716					0
229 202	0								
				581					0
230 112	0								
				257					52
231 27	2								
				89					107
232 21	30								
				104					69
233 35	7								
TOTAL								2875	228

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

ORIGINAL SURVEY		BY	DATE
	SURVEYED	Richter Hollister	
	PLOTTED	Bishop	
NOTE BOOK NO. 5823	TEMPLATE	"	
	AREAS	Wick	
	AREAS CHECKED		

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



STATION	END AREA CUT	END AREA FILL	MEAN AREA CUT	MEAN AREA FILL	DISTANCE	YARDAGE CUT	YARDAGE FILL
233+35	7	172					
234+60	1	153	4	163	125	18	756
235+28	14	1022	8	588	68	20	1481
236+21	13	739	14	881	93	48	3035
237+49	115	1178	64	959	128	304	4556
238+18	37	2441	76	1810	69	194	4630
239+24	47	2337	42	2389	106	165	4685
240+44	111	2237	79	2287	120	351	4237
TOTAL						1100	23380

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400-30	52	

DIVISION JOB NO. 3400-30

PLATE 5 - CROSS SECTION - O. R. R. & E. STANDARD
ROBERTS & SCHAEFER CO., CHICAGO, ILL.

FED. ROAD DIST. NO.	STATE	CO. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	3400	51	52

DIVISION JOB. NO. 3400

STATION	END AREA CUT EARTH	END AREA CUT ROCK	END AREA FILL	DISTANCE	YARDAGE CUT EARTH	YARDAGE CUT ROCK	YARDAGE FILL TOTAL	YARDAGE TOTAL
240+44			111					
				15				339
241+60			141					
				85				402
242+46			76					
				159				163
243+40			12					
				63				28
244+03			8					
TOTAL								932

ORIGINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
NO. 5823
AREAS
AREAS CHECKED
BY
DATE

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

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

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

ORIGINAL SURVEY	SURVEYED	BY Bishop	DATE
	PLOTTED	Bishop	
NOTE BOOK 2323	TEMPLATE	Bishop	
	AREAS CHECKED	Swisher	

STATION	EARTH	ROCK
240 44		
241 P 40		
242 P 48		
243 P 52		
176 P 33		
TOTAL	609	840
INTERSECTION	0	1124
MILE (5)	6867	5229
GRAND TOTAL	7476	7193

PLATE 3—CROSS SECTION O. P. R. R. & P. R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.