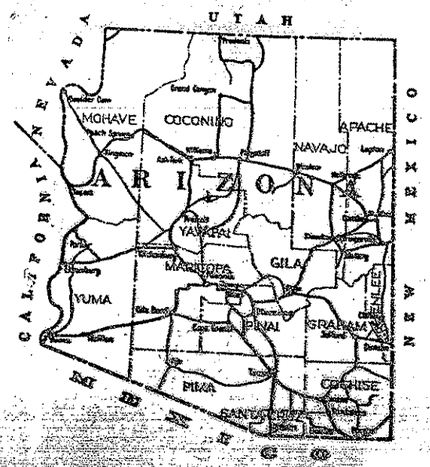
B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S-435(1)	1		



STATE OF ARIZONA
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

COUNTY HIGHWAY

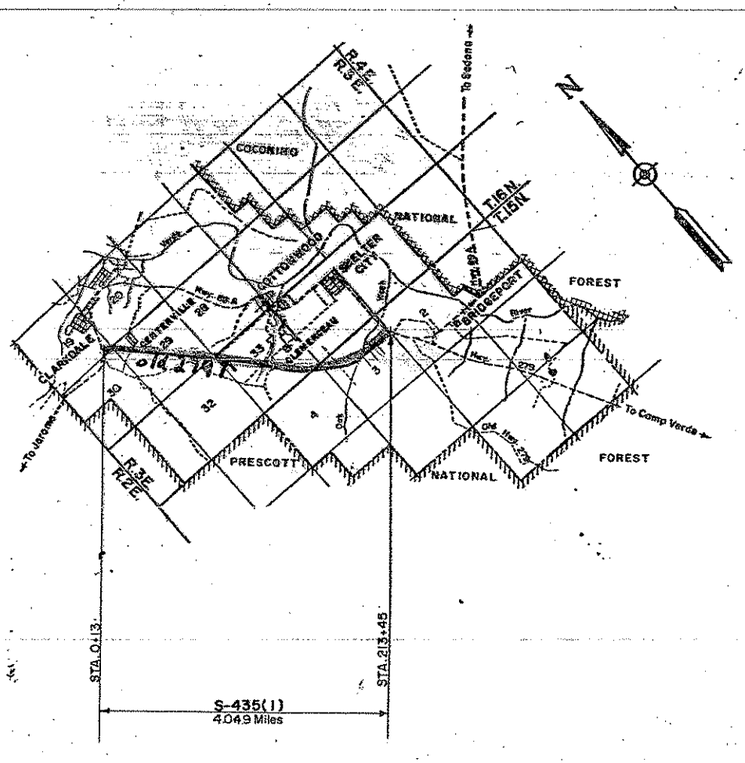
YAVAPAI COUNTY

S-435(1)

Click here for SR 89A Index

PLANS DIVISION
FEB 10 1964
FILE COPY

PLANS DIVISION
FEB 10 1964
FILE COPY



ARIZONA STATE HIGHWAY COMMISSION
APPROVED. WM. N. PRICE
STATE HIGHWAY ENGINEER.

APPROVED DATE
DEPUTY STATE ENGINEER

APPROVED DATE 2-10-64
ASSISTANT STATE ENGINEER
R. [signature]

DEPARTMENT OF COMMERCE.
BUREAU OF PUBLIC ROADS.

DATE
RECOMMENDED FOR APPROVAL
DIVISION ENGINEER.

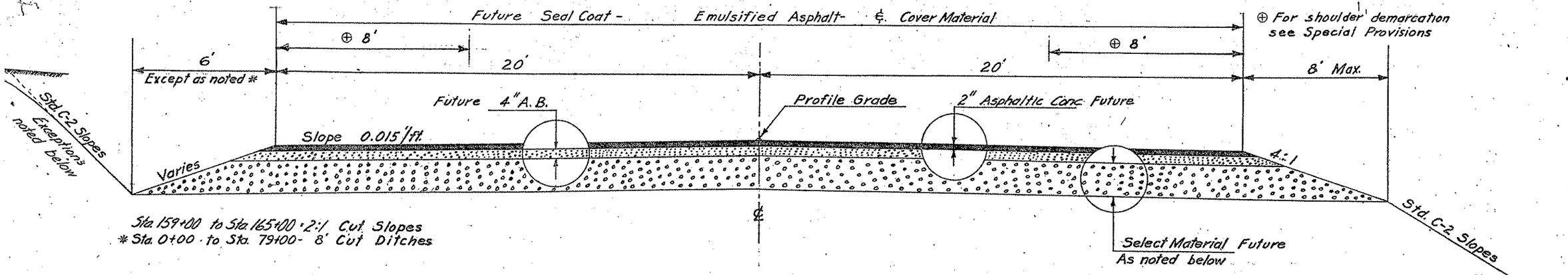
APPROVED DATE
REGIONAL ENGINEER

SCALE: 1" = 1 Mile

BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435 (1)	2	11	

TYPICAL ROADWAY SECTION



Sta 159+00 to Sta 165+00 2:1 Cut Slopes
* Sta 0+00 to Sta 79+00 - 8' Cut Ditches

Note: This project S-435 (1) Grade and Drain only. All else future

SELECT MATERIAL THICKNESS

Station	To Station	Inches
0+00	79+00	23"
79+00	117+50	17"
117+50	143+00	11"
143+00	184+00	17"
184+00	213+58.23	14"

LENGTH OF PROJECT

Sta. 0+13 To Sta. 159+78.76 = 15,965.76'
Sta. 159+30.31 To Sta. 213+45.01 = 5,412.69'
Total = 21,380.45'
Net and Gross Length = 4.049 Miles

NEW CORR. METAL PIPE

tation	Size	Length	Gauge	Remarks
0	24"	72'	14	
0	36"	118'	12	37° Skew Rt.
88	48"	94'	12	
80	36"	126'	12	49° Skew Rt.
65	48"	90'	12	
22	36"	98'	12	16° Skew Rt.
50	60"	94'	10	Strut per Std.C-13-A
92	36"	82'	12	8° Skew Rt.
37	48"	100'	12	19° Skew Rt.
29	48"	158'	12	55° Skew Rt.
00	24"	92'	14	
72+00	24"	44'	14	
50	60"	132'	10	Strut per Std. C-13-A 45° Skew Rt.
79+40	24"	54'	14	
23	60"	130'	10	Strut per Std. C-13-A 40° Skew Rt.
50	3-24"	82'	14	
65	18"	60'	14	Bituminous Coated

RIGHT OF WAY MARKERS

62 - Std. C-1

GUIDE POSTS Future

44 - Std. C-8-2 Type "BR"

CATTLE GUARDS

1 Unit - Std. C-14 Rt. Sta. 20+88
1 Unit - Std. C-14 Lt. Sta. 20+88
1 Unit - Std. C-14 Lt. Sta. 79+20.28
1 Unit - Std. C-14 Rt. Sta. 114+73.14
1 Unit - Std. C-14 Lt. Sta. 114+73.14
1 Unit - Std. C-14 Rt. Sta. 123+89.10
1 Unit - Std. C-14 Lt. Sta. 123+89.10
1 Unit - Std. C-14 ¢ Sta. 130+64.60

LINE FENCE

26,134 Lin. Ft. - 4 Wire Std. C-16.

C.O. #4
Increase Item #21 Borrow from 6150 C.Y. To 10987 C.Y.

REDUCED SIZE
DO NOT SCALE

INDEX OF SHEETS

SHEET NO.	SHEET TYPE
1	Face Sheet
2	Summary Sheet (This Sheet)
3	Bridge Summary Sheet
4-11	Plan and Profile

ROADWAY STANDARDS - 1959

C-1 C-16-A
C-2 C-13-A C-38
C-3 C-14 C-43
C-4 C-16

GENERAL NOTES

R/W encroachments shall be removed by order of the State unless otherwise noted.

All R/W provisions shall be complied with before job acceptance.

Utilities, disturbed by new construction, shall be reset or replaced by the interested utility.

Project Markers will be furnished by the State and placed by the Engineer as per Standard C-38.

Bench Markers will be furnished by the State and placed by the Contractor. Standard C-38

Vegetation outside staked area shall be preserved.

Click here for SR 89A Index

BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435 (1)	3	11	

REINFORCED CONCRETE BOX CULVERTS 20' CLEAR SPAN* OR LESS

Station on ℄	Description	Drawings Req'd. Plan Sh. Nos.	Drawings Req'd. Standards	Struct. Excav. C.Y.	Class A Conc. C.Y.	Rein. Steel lbs.	Spec. Comp. C.Y.	Remove Old Conc. C.Y.	Placing Dowels ea.	Chan. Excav. C.Y.
45+50	New 8'x7'x92'-6" 45° Sk. Rt.	5	C1 8-1 45° Sk.	215	133.87	11,818.5	438	—	—	125
30+62	New 10'x10'x75'-9" 30° Sk. Rt.	6	C1-10-1a 30° Sk.	190	150.43	15,045.5	679	—	—	—
01+27	New 10'x10'x55'-6"	7	C1-10-1a	95	112.99	10,969.8	497	—	—	—
51+56	New 2-8'x4'x84'-0" 30° Sk. Rt.	9	C1-8-2 30° Sk.	286	154.25	17,670	156	—	—	95

REINFORCED CONCRETE BOX CULVERTS OVER 20' CLEAR SPAN*

Station Beginning ℄ Ending	Description	Drawings Req'd. Plan Sh. Nos.	Drawings Req'd. Standards	Struct. Excav. C.Y.	Class A Conc. C.Y.	Reinf. Steel lbs.	Spec. Comp. C.Y.	Remove Old Conc. C.Y.	Placing Dowels ea.	Chan. Excav. C.Y.
113+83.81 to 114+30	New 3-12'x10'x76'-9" 30° Sk. Rt.	4	C1-12-3 30° Sk.	845	422.44	41,551	688	—	—	510
72+09 to 72+62	New 4-12'x10'x54'-6"	6	C1-12-4	426	373.66	44,311.8	488	—	—	—
117+07.85 to 117+55	New 3-10'x8'x109' 45° Sk. Lt.	8	C1-10-3 45° Sk.	575	478.61	58,745	654	—	—	—
181+22.5 to 181+77.5	New 5-10'x5'x55'-6"	10	C1-10-5	329	303.42	34,944.6	148	—	—	—

BRIDGES AND MISCELLANEOUS STRUCTURES**

Station Beginning ℄ Ending or ℄	Description	Plan Sheet Nos.	Standards

STANDARDS LIST

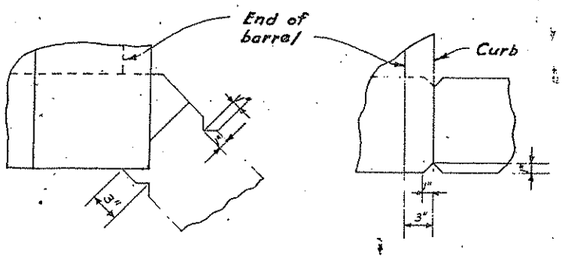
- C1-8-1 45° Sk.
- C1-8-S 45° Sk.
- C1-10-1a 30° Sk.
- C1-10-1a
- C1-8-2 30° Sk.
- C1-8-S 30° Sk.
- C1-12-3 30° Sk.
- C1-12-S 30° Sk.
- C1-12-4
- C1-12-S
- C1-10-3 45° Sk.
- C1-10-S 45° Sk.
- C1-10-5
- C1-10-S

* Clear span denotes distance along ℄ roadway between inside face of exterior walls.

** See Structure Plans for quantities

GENERAL NOTES: Box Culvert Structures Construction - Std. Specs. Ariz. Hwy. Dept. Edition of 1960. All dimensions for reinforcing steel shall be from the surface of concrete to center of bars except when noted otherwise.

JOINT NOTES:
All box culvert structures shall have contraction or cold joints in the top slab and walls (optional in floor slab) spaced not more than 40 feet apart or as shown. The joint may be made with ¼" plywood bulkhead which shall be left in place. Reinforcing steel shall project through the joint.



CULVERT CRACK CONTROL DETAILS

To be used on all wingwalls @ 3" from junction of wingwall to barrel

Click here for SR 89A Index

REDUCED SIZE
DO NOT SCALE

		DATE
LAYOUT		
DESIGN		
ARCHITECTURE		
DRAWN		
TRACED		
CHECKED		

ARIZONA HIGHWAY DEPARTMENT
BRIDGE DIVISION

STRUCTURE SUMMARY SHEET

SHEET NO. 1 OF 1 | BRIDGE NO. | DRAWING NO. | BRIDGE ENGINEER

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435 (1)	4	11	

BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

Finished Plans Yavapai County U.D.B. May 18, 1963

Rt. & Lt. Sta. 0+50 to 29+00
5700' New 4 Wire Fence
Std. C-16 & C-16-A

Drainage Easement

15 Gulch

Sta. 13+83.81 to 14+30
New 3 Span 12'x10'x76'-9" Box Culv.
30° Skew Rt. Std. C 1-12-3 30° Skew

Sta. 8+50
New 36"x118' C.M.P. Skew 37° Rt.

Sta. 2+50
New 24"x72' C.M.P.

20 Found Spoke Rod

N 15°40' E 36.55

Elev. Power Line 1011.8

Elev. Power Line 1002.9

Elev. Power Line 1018.5

Elev. Power Line 958.8

S 40°22' E 51.77
Found Stone Marked S.C.

S 44°38' E

Δ 86°01'
R 100
T 93.27

To Clarkdale

Exist. C.G.

Exist. 32' Roadway

Sta. 0+13. Beg. S 435 (1)
= Sta. 214+57.78
Proj. W.P.M.H. 96-D
on Hwy. 89-A

N 22°55' W
To Jerome

Δ 93°59'
R 100
T 107.20

2+38.35 P.C.

P.I. 5+54.24
Δ 18°47' Rt.
D 3°
R 1909.86
T 315.89
L 626.11
Ext. 25.95
Super 0.015

8+64.46 P.T.

Deception

80'R
20'R
New R/W
N 83°E
52°22'
20'R
80'R
New R/W
Sta. 1+00 End Const.
64°22'
57°W

Construction Easement

REDUCED SIZE
DO NOT SCALE

Click here for SR 89A Index

B.M. X on N.E. Cor. C.G. Hdwl. 15' Rt.
Sta. −1+50.70 Elev. 1000.00

B.M. Spike & Guard ±50' Lt.
Sta. 10+00 Elev. 980.61

B.M. Spike & Guard ±50' Lt.
Sta. 18+00 Elev. 972.91

B.M. Spike & Guard ±50' Lt.
Sta. 27+00 Elev. 947.29

Drainage area 0.009 Sq. Mi. Rt.
C=0.8 Reqd. 2.58 Sq. Ft.

Drainage area 0.028 Sq. Mi. Rt.
C=0.8 Reqd. 6.98 Sq. Ft.

Drainage area 5.4 Sq. Mi. Rt.
C=0.8 Reqd. 361 Sq. Ft.

1000 = 3687.10 U.S.C.&G.S.

40' ROADWAY

Finished Grade Future

350' Grader Ditch Rt.

105' Grader Ditch Rt.

Begin 8' Cut Ditch Lt. & Rt.

300' Grader Ditch Rt.

Sta. 2+50
New 24"x72' C.M.P.
40 C.Y. Str. Exc.

Sta. 8+50
New 36"x118' C.M.P.
126 C.Y. Str. Exc.
126 C.Y. Spec. Comp.

38'4 Inch Lt.

Exc. 117.1
10% Str. 11.3
Emb. 101.4

Exc. 100.7%
10% Str. 100.2
Str. Exc. 10.0
10% Str. 1.0
Emb. 916.1

Exc. 2422.9
10% Str. 242.3
Emb. 2180.6

Rt. Sta. 20+88
New 28'x30' C.T.O. Future
Type C Std. C-3

New Cattle Guard 4 Unit
Standard C-14
10.53 C.Y. "A" Conc.
42.3 C.Y. Str. Exc.

Lt. Sta. 20+88
New 28'x30' C.T.O. Future
Type C Std. C-3

New Cattle Guard 4 Unit
Standard C-14
10.53 C.Y. "A" Conc.
42.3 C.Y. Str. Exc.

℄ Flow Hor. 95.80
Slope −3.5% Lt.

Exc. 12,017.1 Inch. T.O.'s
10% Str. 1201.8
Str. Exc. 929.6
10% Str. 93.0
Chan. Exc. 510.0
10% Str. 51.0
Emb. 12,110.9

Turnouts

Rt. Lt.

Sta. 20+88 = 1100 End Const.

2350' Grader Ditch Rt.

1200' V.C.
S. D5.875°

1901.3 C.Y. To Sta. 45+86.8

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

PLATE 1 PLAN-PROFILE B.P.R. STANDARD
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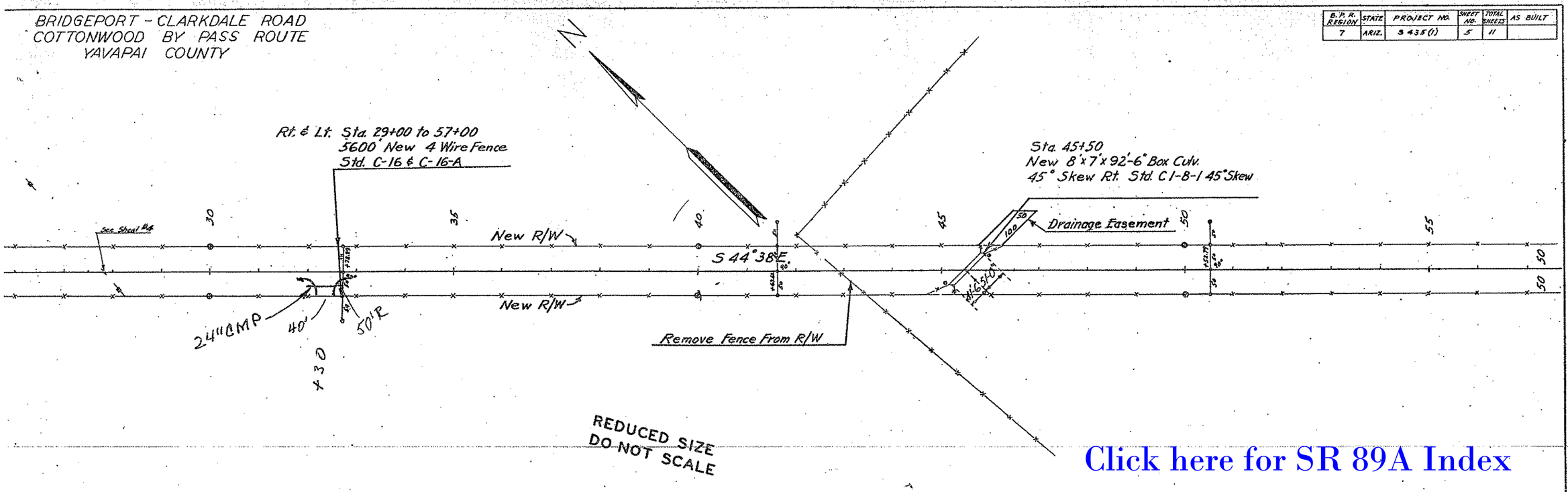
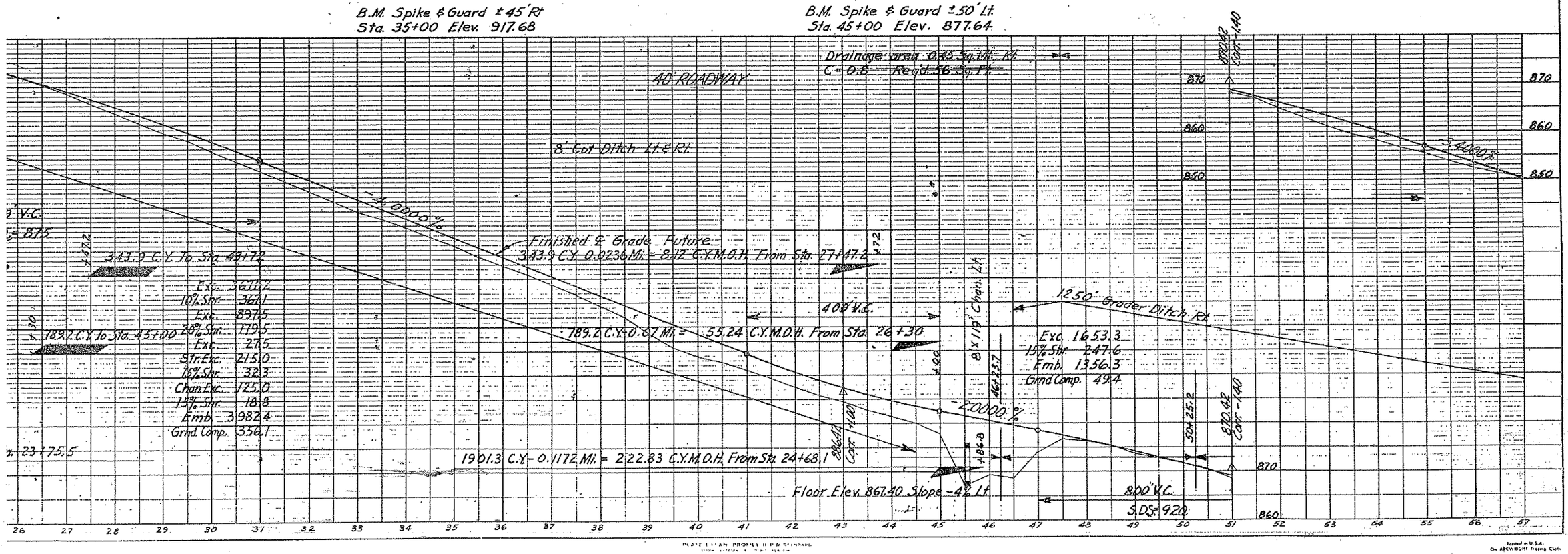
BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435(1)	5	11	



Click here for SR 89A Index



BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ	S 435 (1)	6	11	

N

Rt. & Lt. Sta 57+00 to 87+00
6000' New 4 wire fence
Std. C-16 & C-16-A

Sta 72+09 to 72+62
4 Span 12'x10'x54'6" Box Culv.
Std C1-12-4

Sta. 60+62
New 10'x10'x75'-9" Box Culv.
30° Skew Rt. Std. C1-10-1a 30° Skew

Sta. 64+88
New 48"x94' C.M.P.

S44°38'E

Mescal

Existing 33' Road
to be abandoned

Sta. 1+00

T16N R3E

Construction Easement

S 89°55'E

Found 2" Pipe

45°17'

80R

20R

New R/W

New R/W

Tie to Sta. 79+77.65
N 77°37'E 119.27'

Sta. 78+80
New 36"x126' C.M.P. 49° Skew Rt.

REDUCED SIZE
DO NOT SCALE

Click here for SR 89A Index

1000'
3.687.10
4595

B.M. Spike & Guard ± 50' Rt.
Sta. 57+00 Elev. 851.75

B.M. Spike & Guard ± 45' Rt.
Sta. 66+00 Elev. 835.26

B.M. Spike & Guard ± 50' Rt.
Sta. 75+00 Elev. 829.16

B.M. Spike & Guard ± 50' Rt.
Sta. 84+00 Elev. 821.49

Drainage Area C-0.8 Reqd 100.0 Sq. Ft.

Drainage Area C-0.8 0.0522 Sq Mi Reqd 111.2 Sq Ft

Drainage Area A 7.92 Sq Mi. C-0.8 Reqd 4830 Sq Ft

Drainage Area A 0.02565 Sq Mi. C-0.8 Reqd 65 Sq Ft

Drainage Area A 0.022 Sq Mi. C-0.8 Reqd 376 Sq Ft

500' V.C.

40' ROADWAY

Finished ℄ Grade Future

-0.5467%

End 8' Cut Ditch Lt & Rt.

Lt. Sta 79+20.28
New 28"x30' A.C.I.P. Future
Type C Std. C-3

New Cattle Guard 4 Unit
Sta C-14 103 C.Y. A Conc.
42.3 C.Y. Str. Exc.

Future Hwy.
Sta. 79+20.28
Lt.

Future Hwy.
Sta. 79+20.28
Lt.

Culv. 2-72

Future

100' Grader Ditch Rt.

℄ Floor Elev. 829.85
Slope - 4.6 %11

175' Grader Ditch Rt.

Sta 64+88
New 48"x94' C.M.P.
10 C.Y. Str. Exc.
165 C.Y. Spec. Comp.

500' Grader Ditch Rt.

℄ Floor Elev. 823.87
Slope - 2%11

150' Grader Ditch Rt.

50' Grader Ditch Rt.

100' Grader Ditch Rt.

600' V.C.
S.D.= 102.5

Sta 78+80
New 36"x126' C.M.P.
111 C.Y. Str. Exc.
135 C.Y. Spec. Comp.

Culv. 1-72

Culv. 2-72

Ext. 3200.8
15%5 mi. 480.2
Emb. 2720.6

Sta. 50+25.2

3116.8 C.Y. 0.9353 Mi. = 2915.14 C.Y. M.O.H. From Sta. 125+32.4

1467.9 C.Y. 0.7116 Mi. = 1044.56 C.Y. M.O.H. From Sta. 124+25.6

1828.2 C.Y. 0.5143 Mi. = 940.24 C.Y. M.O.H. From Sta. 119+83.1

860
850
840
830
820
= 1.5938%
810
800
790
780
770
760

56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87

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COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435 (1)	7	11	

Box 9-63 PO
Finished Plans May 18, 1963 Yavapai County

Sta. 87+65
New 48"x90' C.M.P.

Sta. 92+22
New 36"x98' C.M.P. Skew 16° Rt.

Elev. Powerline 827.8

Sta 101+27
New 10'x10'x55'-6" Box Culv.
Std. C1-10-1a

Rt. & Lt. Sta. 87+00 to 117+00
6000' New 4 Wire Fence
Std. C-16 & C-16-A

Construction Easement

Sta. 112+92
New 36"x82' C.M.P. 8° Skew Rt.

Sta. 1+00 End Const.

N 73°27'E

65°57'

80'R

20'R

New R/W

S 44°38'E

S 40°36'E

P.I. 92+85.59
Δ 4°02' Rt.
D 1°
R 5729.58
T 201.80
L 403.33
Ext. 3.55
Super 0.015

90+83.79 P.C.

94+87.12 P.T.

Sta. 96+50
New 60"x94' C.M.P.

REDUCED SIZE
DO NOT SCALE

10001 = 3687.10 USGS

Click here for SR 89A Index

B.M. Spike & Guard ± 45 Rt.
Sta 93+00 Elev. 808.11

B.M. Spike & Guard ± 50' Rt.
Sta 103+00 Elev. 801.95

B.M. Spike & Guard ± 50' Lt.
Sta. 111+00 Elev. 797.47

Drainage area 0.025 Sq. Mi. Rt.
C = 0.8 Reqd. 6.45 Sq. Ft.

Drainage area 0.0296 Sq. Mi. Rt.
C = 0.8 Reqd. 7.26 Sq. Ft.

Drainage area 0.1076 Sq. Mi. Rt.
C = 0.8 Reqd. 19.12 Sq. Ft.

Drainage area 1.0 Sq. Mi. Rt.
C = 0.8 Reqd. 102 Sq. Ft.

Drainage area 0.02976 Sq. Mi. Rt.
C = 0.7 Reqd. 6.38 Sq. Ft.

40' ROADWAY
40' V.C.

-1.5938%

+6.7780%

-3.3000%

Finished & Grade Future

600' V.C.

335' Grader Ditch Rt.

440' Grader Ditch Rt.

450' Grader Ditch Rt.

700' Grader Ditch Rt.

360' Grader Ditch Rt.

150' Grader Ditch Rt.

1000' V.C.

500' V.C.

400' V.C.

Sta. 87+65
New 48"x90' C.M.P.
6 C.Y. Str. Exc.
158 C.Y. Spec. Comp.

Sta. 92+22
New 36"x98' C.M.P.
2.5 C.Y. Str. Exc.
105 C.Y. Spec. Comp.

Sta. 96+50
New 60"x94' C.M.P.
3 C.Y. Str. Exc.
245 C.Y. Spec. Comp.

To Sta 60+48.2

Sta. 112+92
New 36"x82' C.M.P.
34 C.Y. Str. Exc.
88 C.Y. Spec. Comp.

To Sta 126+18.5

1828.2 C.Y. To Sta 72+67.6

Exc. 21,205.4 Incls. 10%
15% Shr. 3,180.5
Exc. 808.6
20% Shr. 161.8
Exc. 14620.0
10% Shr. 1462.2
Str. Exc. 42.3
20% Shr. 8.5
Str. Exc. 868.6
15% Shr. 130.4
Str. Exc. 639.6
10% Shr. 66.0
Emb. 33,195.1

New Cattle Guard 4 Unit
Std. C-14
10.53 C.Y. A Conc.
42.3 C.Y. Str. Exc.

Turnouts

1400 End Const. Lt. Rt. 1400 End Const.

Sta. 114+73.14 = 0+00 To

Sta. 114+73.14

Sta. 1+00 End Const.

85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117

820 810 800 790 780 770 760

PLATE 1 PLAN - PROFILE B P R STANDARD
EUGENE DIETZGEN CO., CHICAGO - NEW YORK

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BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435 (1)	8	11	

P.I. 1+50.00
Δ 34°00' Lt.
D 18°
R 318.31
T 97.32
L 188.89
Super 0.08

Construction Easement

Sta. 117+07.85 to 117+55
New 3 span 10'x8'x109' Box Culv. 41.57 P.T.
45° Skew Lt. Std C1-10-3 -45° Skew

Wash

1+00 End Const.

30' R

0+52.68 P.C.

0+00

0+43.80 P.C.

30' R

1+00 End Const.

Elev. Power Line 813.50

178.87 P.T.

Construction Easement

P.I. 1+35.48
Δ 42°01' Rt.
D 24°
R 238.73
T 91.68
L 175.07
Super 0.08

Sta. 128+37
New 48"x100' C.M.P. Skew 19° Rt.

Irrig. Ditch

Sta. 127+65 New 18"x60' C.M.P.
Asphalt Coated.

Sta. 130+64.60 Fence
to be removed from R/W

285' New Irrigation Ditch 2'x2'

Rt. & Lt. Sta 117+00 to 131+17
2834' New 4 Wire fence
Std. C-16 & C-16-A

New R/W

S 40° 36' E

New R/W

P.I. 143+50.12
Δ = 17°54' Lt.
D = 2°
R = 2864.79'
T = 451.20'
L = 895.00'
Ext. = 35.31'
Super 0.015'

138+98.92 P.C.

147+93.92 P.T.

S 58° 30' E

8+75
Sta. 139+29
New 48"x158' C.M.P. Skew 55° Rt.

REDUCED SIZE
DO NOT SCALE

C.O. #1

1000' = 3682.10' U.S.G.S.

1:1 Slope
2'
2'
Irrigation Ditch

Click here for SR 89A Index

B.M. Spike & Guard ± 50' Rt.
Sta. 121+00 Elev. 795.75

B.M. Spike & Guard ± 50' Lt.
Sta. 131+00 Elev. 792.40

B.M. Spike & Guard ± 50' Rt.
Sta. 139+00 Elev. 795.36

Drainage Area 3.137 Sq. Mi. Rt.
C 0.6 Reqd. 2880 Sq. Ft.

Drainage Area 0.89 Sq. Mi. Rt.
C 0.6 Reqd. 1254 Sq. Ft.

Drainage Area 0.09 Sq. Mi. Rt.
C = 0.6 Reqd. 1254 Sq. Ft.

400' V.C.

Finished & Grade Future

+1.8846%

650' Grader Ditch Rt.

Float Elev. 161.83
Slope 2.29% Lt.

778.30
Cont. 42.5

200' Grader Ditch Rt.

40' ROADWAY

-0.7043%

350' Grader Ditch Rt.

350' Grader Ditch Rt.

850' Grader Ditch Rt.

Rt. Sta. 123+89.10
New 28'x30' AC 7A Future
Type A Std. C-3

New Cattle Guard 4 Unit
Std. C-14 10.53 C.Y. A. Conc.
42.3 C.Y. Str. Exc.
3116.8 C.Y. to Sta. 60+94.2
1467.9 C.Y. to Sta. 71+68.4

Lt. Sta. 123+89.10
New 28'x30' AC 7A Future
Type A Std. C-3

New Cattle Guard 4 Unit
Std. C-14 10.53 C.Y. A. Conc.
42.3 C.Y. Str. Exc.

Turnouts
Exc. 121.1
10% Str. 42.0
Str. Exc. 28.0
10% Str. 2.8
Emb. 105.3
Grnd. Comp. 64.0

1400 End Const.

Sta. 133+89.0
1400 Rt. & Lt.

1400 End Const.

Sta. 127+65
New 18"x60' C.M.P.
16 C.Y. Str. Exc.
21 C.Y. Spec. Comp.

Sta. 128+70.2
New 48"x100' C.M.P.
13 C.Y. Str. Exc.
176 C.Y. Spec. Comp.

660' V.C.

Sta. 130+64.60
New Cattle Guard 6 Unit Std. C-14
14.9 C.Y. A. Conc. 66.5 C.Y. Str. Exc.

4978.0 C.Y. 0.6166 Mi. = 3063.43 C.Y.M.O.H. From Sta. 177+29.2

884.8 C.Y. 0.3342 Mi. = 384.78 C.Y.M.O.H. From Sta. 169+50

1210.6 C.Y. 0.3369 Mi. = 407.85 C.Y.M.O.H. From Sta. 165+16.9

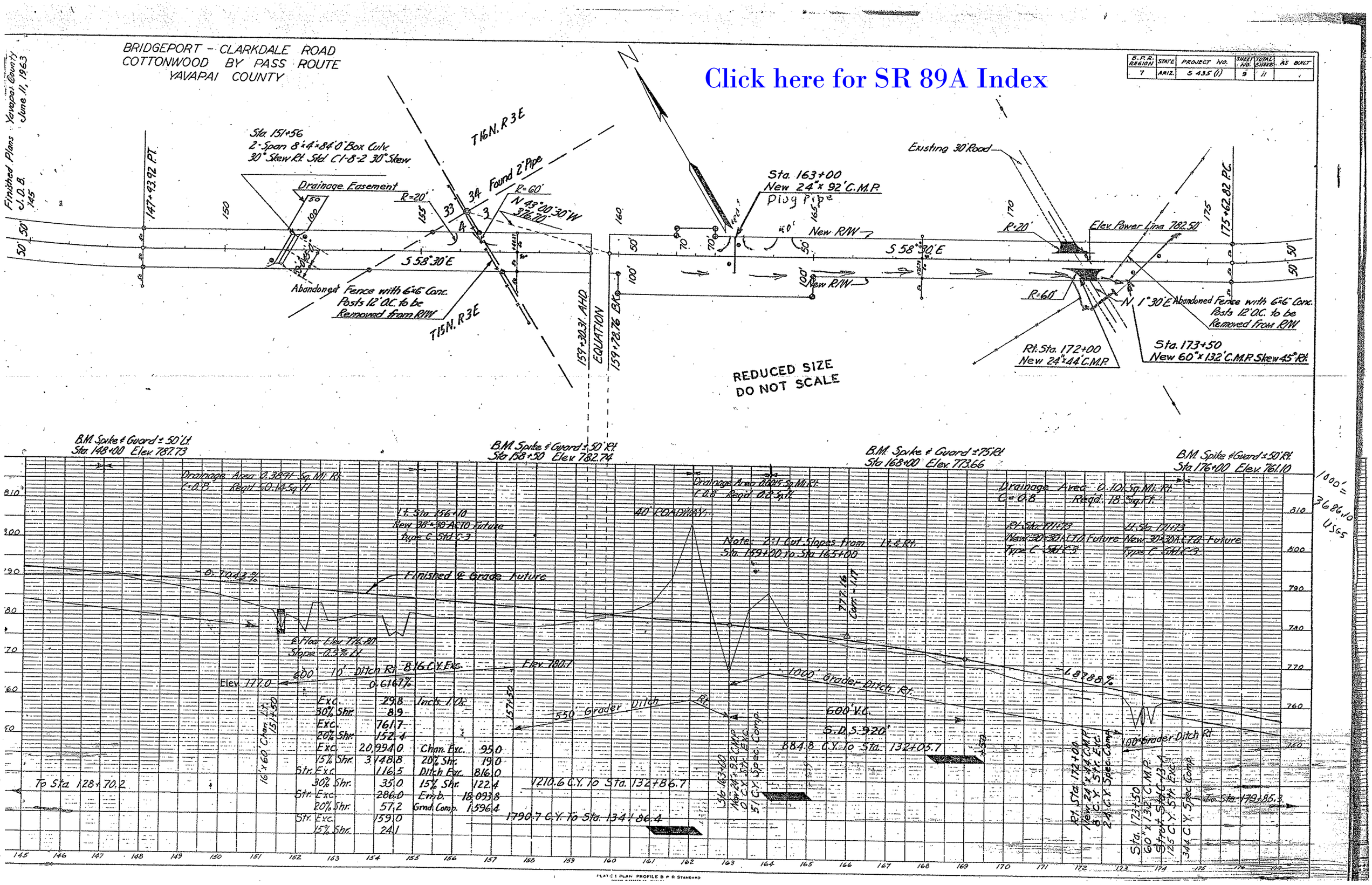
1790.7 C.Y. 0.2457 Mi. = 439.97 C.Y.M.O.H. From Sta. 162+35.1

Sta. 139+29
New 48"x158' C.M.P.
30 C.Y. Str. Exc.
278 C.Y. Spec. Comp.

800
790
780
770
760
750

116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147

PLATE 1 PLAN - PROFILE B P R STANDARD


BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY
Click here for SR 89A Index
B.P.R. REGION 7
STATE ARIZ.
PROJECT NO. S 435 (1)
SHEET NO. 9
TOTAL SHEETS 11
AS BUILT
Finished Plans Yavapai County
J.D.B. June 11, 1963
Sta. 151+56
2-Span 8'x4'x84'0" Box Culv.
30° Skew Rt. Std. C1-8-2 30° Skew
Drainage Easement
R=20'
R=60'
N 43°00'30"W
376.70'
Found 2" Pipe
T16N. R3E
T15N. R3E
S 58°30'E
Abandoned Fence with 6"x6" Conc. Posts 12' O.C. to be Removed from R/W
159+30.31 AHD
EQUATION
159+78.76 BK.
Sta. 163+00
New 24"x 92' C.M.P.
Plug Pipe
New R/W
Existing 30' Road
Elev. Power Line 782.50'
R=20'
R=60'
N 1°30'E
Abandoned Fence with 6"x6" Conc. Posts 12' O.C. to be Removed from R/W
Rt. Sta. 172+00
New 24"x44' C.M.P.
Sta. 173+50
New 60"x 132' C.M.P. Skew 45° Rt.
REDUCED SIZE
DO NOT SCALE
147+93.92 P.T.
175+62.82 P.C.
B.M. Spike & Guard ± 50' Lt.
Sta. 148+00 Elev. 787.73
B.M. Spike & Guard ± 50' Rt.
Sta. 158+50 Elev. 782.74
B.M. Spike & Guard ± 75' Rt.
Sta. 168+00 Elev. 773.66
B.M. Spike & Guard ± 50' Rt.
Sta. 176+00 Elev. 761.10
Drainage Area 0.3891 Sq. Mi. Rt.
C=0.8 Reqd. 50.14 Sq. Ft.
Drainage Area 0.0015 Sq. Mi. Rt.
C 0.8 Reqd. 0.8 Sq. Ft.
Drainage Area 0.101 Sq. Mi. Rt.
C=0.8 Reqd. 18 Sq. Ft.
Lt. Sta. 156+10
New 38"x30' ACTO Future
type C Std. C-3
40' ROADWAY
Note: 2:1 Cut Slopes from Lt. & Rt.
Sta. 159+00 to Sta. 165+00
Rt. Sta. 171+73
New 30"x30' ACTO Future
Type C Std. C-3
Lt. Sta. 171+73
New 30"x30' ACTO Future
Type C Std. C-3
1000' = 3686.10 USGS
-0.7043%
Finished ℄ Grade Future
℄ Floor Elev. 776.80
Slope -0.5% Lt.
600' 10' Ditch Rt. 816 C.Y. Exc.
Elev. 780.7
Elev. 777.0
0.6167%
Exc. 29.8 Incls. I.Os.
30% Shr. 8.9
Exc. 761.7
20% Shr. 152.4
Exc. 20,994.0
15% Shr. 3,148.8
Str. Exc. 116.5
30% Shr. 35.0
Str. Exc. 280.0
20% Shr. 57.2
Str. Exc. 159.0
15% Shr. 24.1
Chan. Exc. 95.0
20% Shr. 19.0
Ditch Exc. 816.0
15% Shr. 122.4
Emb. 18,093.8
Grnd. Comp. 1,596.4
16'x60' Chan. Lt. 151+50
157+50
550' Grader Ditch Rt.
1000' Grader Ditch Rt.
600' V.C.
S.D.S. 920'
884.8 C.Y. To Sta. 132+05.7
1210.6 C.Y. To Sta. 132+86.7
1790.7 C.Y. To Sta. 134+86.4
-1.8788%
100' Grader Ditch Rt.
To Sta. 128+70.2
To Sta. 179+85.3
Sta. 163+00
New 24"x92' C.M.P.
0 C.Y. Str. Exc.
51 C.Y. Spec. Comp.
Rt. Sta. 172+00
New 24"x44' C.M.P.
8 C.Y. Str. Exc.
24 C.Y. Spec. Comp.
Sta. 173+50
60"x132' C.M.P.
Strut Std. C-13-A
125 C.Y. Str. Exc.
344 C.Y. Spec. Comp.
PLATE 1 PLAN PROFILE B P R STANDARD

Click here for SR 89A Index

BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B.P.R. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435 (1)	10	11	

REDUCED SIZE
DO NOT SCALE

N

P.I. 179+64.60
Δ = 31°20' Lt.
D = 4°
R = 1432.40'
T = 401.73'
L = 783.33'
Ext. 55.26'
Super 0.04%

175+62.87 P.C.

S 58°30' E

Finished Plans Yavapai County J.D.B. June 11, 1963

Sta. 183+46.20 P.T.

Gulch

R = 20'

S 74° 01' W

R = 186.60

Sta. 181+22.50 to 181+77.50
5-Span 10'x5'x55'-6" Box Culv.
Std. C1-10-5.

Spring

New 10'x2.2' Dyke

Rt. Sta. 179+40
New 24"x54" C.M.P.

Sta. 190+23
New 60"x130' C.M.P. Skew 40° Rt.

Extend 200' By permit

S 89° 50' E

Sta. 197+50
3-New 24"x82' C.M.P.

New R/W

Existing 20 to 28' Graded road

Sta. 1+50 End Const.

MOUNTAIN VIEW DRIVE

PALISADE DRIVE

HEBBE DRIVE

1 VERDE 5

2 PALISADES 4

New 10'x2' Dyke

50' 50'

B.M. Spike & Guard ± 50' Rt.
Sta. 184+00 Elev. 750.78

B.M. Spike & Guard ± 50' Lt.
Sta. 192+00 Elev. 724.60

B.M. Spike & Guard ± 50' Rt.
Sta. 201+00 Elev. 715.31

Future
Rt. Sta. 180+00
New 24"x32' C.M.P.
Type C Std. C-3

Drainage Area 1.306 Sq. Mi. Rt.
C 0.8 Reqd. 2.34 Sq. Ft.

Rt. Sta. 185+93.18
New 30"x30' C.M.P. Future
Type A Std. C-3

Drainage Area 0.106 Sq. Mi. Rt.
C 0.8 Reqd. 1.9 Sq. Ft.

40' ROADWAY

Rt. Sta. 192+55.07
New 30"x30' C.M.P. Future
Type A Std. C-3

Drainage Area 0.037 Sq. Mi. Rt.
C 0.8 Reqd. 0.5 Sq. Ft.

Rt. Sta. 199+17.67
New 30"x30' C.M.P. Future
Type A Std. C-3

Turnout

100' Grader Ditch Rt.

New 10'x2.2'x150' Dyke Rt.
163 C.Y. Emb.
Elev. Top 746.00

E Floor Elev. 73877
Slope - 4.5 %

150' Grader Ditch Rt.

175' Grader Ditch Rt.

Finished & Grade Future

225' Grader Ditch Rt.

400' Grader Ditch Rt.

New 10'x2'x146' Dyke Rt.
140 C.Y. Emb.
Elev. Top 714.00

Rt. Sta. 179+40
New 24"x54" C.M.P.
26 C.Y. Str. Exc.
30 C.Y. Spec. Comp.

Exc. 188.8
15% Shr. 28.3
Emb. 160.5

4978.0 C.Y. to Sta. 180+22.6

Sta. 185+93.18 ± 0+00

Exc. 2.0
15% Shr. 0.4
Exc. 2661.3
10% Shr. 266.2
Str. Exc. 329.0
15% Shr. 49.4
Emb. 2513.3
Dyke 162.0

Sta. 190+23
New 60"x130' C.M.P.
Str. Exc. 453.4
0 C.Y. Str. Exc.
339 C.Y. Spec. Comp.

Exc. 4567.5
10% Shr. 456.9
Emb. 4110.6

Sta. 192+55.07 = 0+00

Curve - 0.7%

Sta. 197+50
3-New 24"x82' C.M.P.
12 C.Y. Str. Exc.
99 C.Y. Spec. Comp.

Exc. 9286.2
10% Shr. 928.6
Str. Exc. 14.0
10% Shr. 1.4
Emb. 8095.9
Grad Comp. 134.3
Dyke 140.0

Sta. 199+17.67 = 0+00

0 C.Y. Str. Exc.
1400 C.Y. Spec. Comp.

Sta. 1+50 End Const.

Turnout

100' V.C.

S.D.S. 710'

400' V.C.

1000 = 3687.7 USGS

PLATE I PLAN - PROFILE B P R STANDARD
EUGENE DIETZGEN CO. CHICAGO - NEW YORK

BRIDGEPORT - CLARKDALE ROAD
COTTONWOOD BY PASS ROUTE
YAVAPAI COUNTY

B. P. R. REGION	STATE	PROJECT NO.	SHEET No.	TOTAL SHEETS	AS BUILT
7	ARIZ.	S 435 (1)	11	11	

Finished Plans Yavapai County June 11, 1963

Rev. 5-63 PD

J.D.B. 205

ALIGNMENT CHECKED
M. OF MAT CHECKED

Existing 18' Road

New R/W

589°50'E

New R/W

Δ 105°30'
R 100.0

Sta. 212+39.87 Sec. Line

90°03'22"

Δ 69°50
R 100.0

Fence to be moved from R/W

℄ U.S. 89-A

Sta. 213+45.0 End S-435(1)
= Sta. 105+71.21 N.R.H. 96 B(35)
On Highway 89-A.

1338.72'

= T.15 N. R.3 E.

Found Stone
Sec. 3 ¼ Cor. Sec. 2

B.M. Spike & Guard ± 50' Rt
Sta. 207+00 Elev. 678.78

B.M. Spike & Guard ± 50' Rt
Sta. 212+00 Elev. 667.02

N

REDUCED SIZE
DO NOT SCALE

Click here for SR 89A Index

LOCATION OBSERVED
B.M.'s NOTED
STRUCTURE NOTATIONS ADVD

40' ROADWAY

1000' = 3687.10' USGS

700
690
680
670
660
650

-3.33-94 %

Finished & Grade Future
400' V.C.

-1.99-05 %

1149 C.Y. - 1666 Mi.

From P.I. # 696B

449.8

669.67

Cum + 2108

2137.45

Exc. 1091.5
25% Shr. 272.8
Emb. 792.2
Grnd. Comp. 129.9
Borrow 114.9
10% Shr. 11.5

Exc. 2752.2
10% Shr. 275.2
Emb. 2307.3
Grnd. Comp. 169.7

206+42.0

To Sta. 201+99.3

205 206 207 208 209 210 211 212 213 +50.23

PLATE I PLAN PROFILE B P R STANDARD