PLANS OF

SONOMA AQUEDUCT

WATER TRANSMISSION PIPE LINE

From: THE CITY OF SANTA ROSA

To: THE CITY OF SONOMA

BY

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

BOARD OF DIRECTORS

GUY A. KING	CHAIRMAN
S. CARSON MITCHELL	E. J. "NIN" GUIDOTTI
EVERETT LAMPSON	LEIGH SHOEMAKER

GORDON W. MILLER-CHIEF ENGINEER

GENERAL NOTES

1. ELEVATIONS SHOWN ARE IN FEET ABOVE USGS M.S.L. DATUM
2. STATIONS SHOWN ON PLAN AND PROFILE ARE HORIZONTAL DISTANCES UNLESS OTHERWISE SHOWN
3. ALL STATIONS, GRADES, AND ELEVATIONS ARE SUBJECT TO REVISION TO SUIT FIELD CONDITIONS
4. LAYING DIRECTION OF PIPE SHALL BE UPHILL WHERE INVERT GRADES EXCEED 25%
5. TREES MEASURED LESS THAN 8" IN DIAMETER, 3 FROM THE GROUND, OTHER THAN ORCHARD TREES, ARE NOT SHOWN ON THE DRAWINGS
6. ALL FENCES ARE TO BE RECONSTRUCTED IN KIND-SUBSTITUTION SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF PROPERTY OWNER AND THE ENGINEER
7. EXISTING PUBLIC UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR UNLESS OTHERWISE NOTED
   UTILITY OWNERSHIP AS FOLLOWS UNLESS OTHERWISE NOTED,
   GAS & ELECTRICITY ——— PACIFIC GAS & ELECTRIC CO.
   WATER & SEWER ——— CITY OF SANTA ROSA
   VALLEY OF THE MOON COUNTY WATER DISTRICT
   SONOMA WATER AND IRRIGATION COMPANY
   SONOMA STATE HOSPITAL
   SONOMA VALLEY COUNTY SANITATION DISTRICT
   TELEPHONE ——— PACIFIC TELEPHONE CO.
8. SANITARY SEWER ENCASEMENT AND HOUSE CONNECTION RECONSTRUCTION WHEN REQUIRED SHALL BE ACCORDING TO DETAILS ON DRAWINGS.

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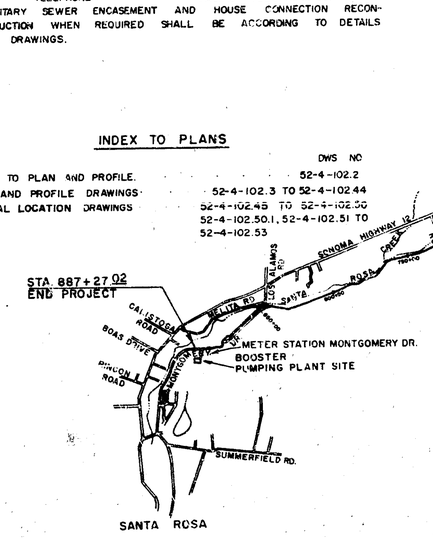
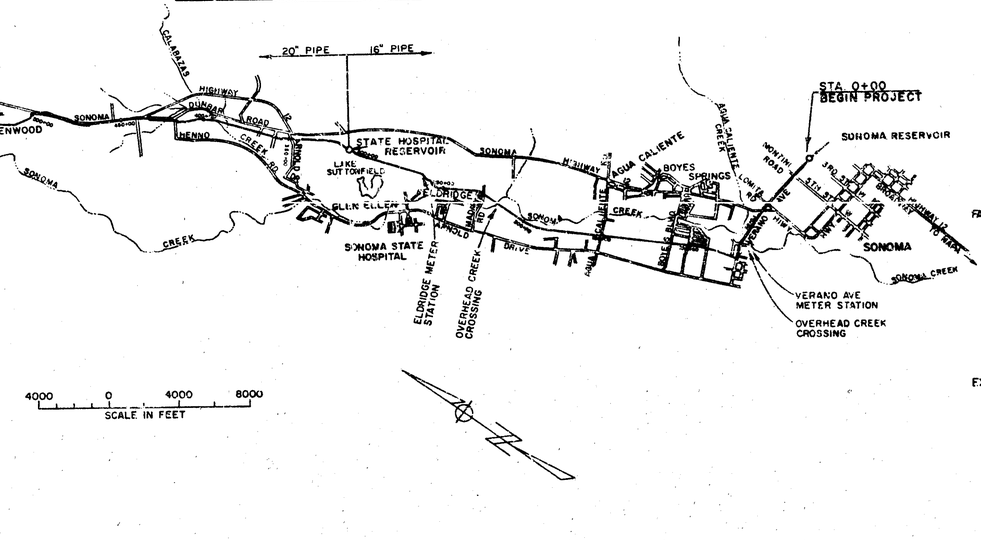
SPECIAL LOCATION DRAWINGS	52-4-102.45 TO 52-4-102.50 52-4-102.50.1, 52-4-102.51 TO 52-4-102.53





FACILITIES TO BE CONSTRUCTED

- ELECTROLYSIS TEST STATION
- INSULATION FLANGE
- AIR VALVES, TYPE A, B, C, OR D
- DISTRIBUTION TURNOUT, TYPE A OR B
- MAIN LINE GATE VALVE TYPE A OR B WITH AIR VALVE
- TYPE C
- BUTTERFLY VALVE
- GATE VALVE

EXISTING FACILITIES

- TELEPHONE CABLE SIGN (T.C.S.)
- POWER & TELEPHONE POLE & GUY
- FENCES
- MONUMENT
- TREE
- DITCH, OR INTERMITTENT STREAM
- RIGHT OF WAY & ADJOINING EASEMENT

DESIGN STANDARD DRAWINGS

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Return to Master Index

AS BUILT
Date 3/63
By Kirl

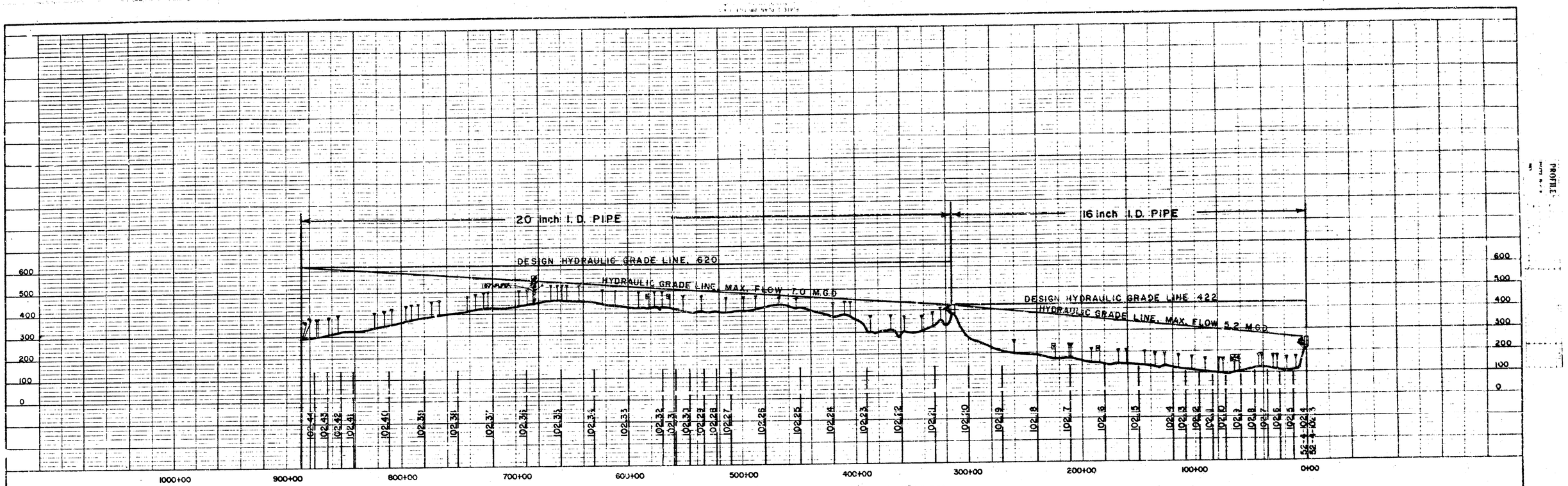
No.	DATE	REVISION	By

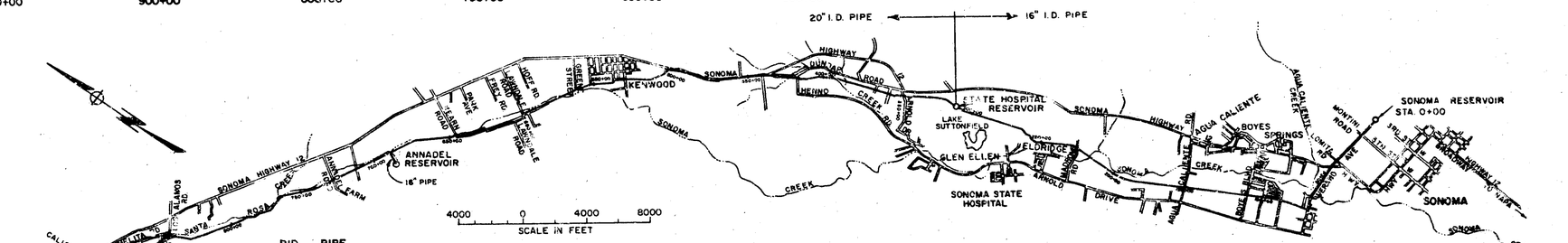
SONOMA AQUEDUCT
GENERAL NOTES & INDEX

SCALE 1" = 4000' | APPROVED: Gordon W. Miller, CHIEF ENGINEER | DRAWN K.L.L.
DATE MAR 23, 1962 | C.W. RE ASST.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED J.E.A. | SUBMITTED C.W. RE ASST. | DRAWING NUMBER 52-4-102.1





AIR VALVE - See Plan & Profile

MAIN LINE GATE VALVE WITH AIR VALVE

BUTTERFLY VALVE

BID ITEM	PIPE DIA.	STATION	LENGTH *	ALTERNATE PIPE DESCRIPTION
2A	16"	0+00 - 1+61 BACK 0+00 - 5+50 AHEAD	711	EITHER: Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating over the steel cylinder. ~~OR: M.P. Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating over the steel cylinder.~~ ~~OR: Transite Pressure Pipe, Tifco fittings.~~ ~~OR: Welded Steel Pipe, 1/2" cement mortar lining, AWWA double wrapped coal-tar over steel cylinder.~~
2B	16"	5+50 - 47+80	4,384	EITHER: Welded Steel Pipe, 1/2" cement mortar lining, 1" concrete coating over 1/8" coal-tar undercoat. ~~OR: Transite Pressure Pipe, Tifco fittings (except within steel encasement, Station 424+02 to 424+50 Steel pipe only)~~ ~~OR: Welded Steel Pipe, 1/2" cement mortar lining, AWWA double wrapp[illegible] coal-tar [illegible] steel cylinder~~
2A	16"	47+60 - 144+35 (see note)	9,354	~~EITHER: Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating [illegible] steel cylinder~~ ~~OR: M.P. Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating over the steel cylinder~~ ~~OR: Transite Pressure Pipe, Tifco fittings~~ ~~OR: Welded Steel Pipe, 1/2" cement mortar lining, AWWA double wrapped coal-tar over steel cylinder~~
2B	16"	144+35 - 164+35	2,000	~~EITHER: Welded Steel Pipe, 1/2" cement mortar lining, 1" concrete coating over 1/8" coal-tar undercoat~~ ~~OR: Transite Pressure Pipe, Tifco fittings~~ ~~OR: Welded Steel Pipe, 1/2" cement mortar lining, AWWA double wrapped coal-tar over steel cylinder~~
2A	16"	164+35 - 275+45 (see note)	10,923	~~EITHER: Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating over the steel cylinder~~ ~~OR: M.P. Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating over the steel cylinder~~ ~~OR: Transite Pressure Pipe, Tifco fittings~~ ~~OR: Welded Steel Pipe, 1/2" cement mortar lining, AWWA double wrapped coal-tar over steel cylinder~~
2B	16"	275+45 - 295+45	2,000	~~EITHER: Welded Steel Pipe, 1/2" cement mortar lining, 1" concrete coating over 1/8" coal-tar undercoat~~ ~~OR: Transite Pressure [illegible] Tifco fittings~~ ~~OR: Welded Steel Pipe, [illegible] cement mortar lining, AWWA double wrapped coal-tar over steel cylinder~~
2A	16"	295+45 - 314+11.44 ~~0+00 to 5+30 - 1,478~~ ~~ANNADEL RESERVOIR~~	1,773	~~EITHER: Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating over the steel cylinder~~ ~~OR: M.P. Welded Steel Pipe, 1/2" cement mortar lining, 1-1/4" concrete coating over the steel cylinder~~ ~~OR: Transite Pressure Pipe, Tifco fittings~~ ~~OR: Welded Steel Pipe, 1/2" cement mortar lining, AWWA double wrapped coal-tar over steel cylinder~~
1	20"	314+11.44 - 887+02 (see note)	57,180	EITHER: Welded Steel Pipe, 3/4" cement mortar lining, 1" concrete coating over the steel cylinder ~~OR: M.P. Welded Steel Pipe, 3/4" cement mortar lining, 1" concrete coating over the steel cylinder~~ ~~OR: Transite Pressure Pipe, Tifco fittings (except within steel encasement, Station 838+94 to 841+56 Steel pipe only)~~ ~~OR: Welded Steel Pipe, 3/4" cement mortar lining, AWWA double wrapped coal-tar over steel cylinder~~

* HORIZONTAL STATION DISTANCE

NOTE

Sta 61+00 to 62+15.20	Bid Item 12	See Dwg. 32-4-102.48
" 62+15.20	64+20.30	" " 15	" "	102.51
" 218+15.57	219+42.46	" " 14	" "	102.52
" 572+92.90	573+93.70	" " 13	" "	102.53

~~TRANSITE PRESSURE PIPE ALTERNATE WILL REQUIRE SPECIAL CONCRETE ANCHORAGE. SEE SPECS SECTION 3-18~~

AS BUILT 3/63 KM

Return to Pipeline Index

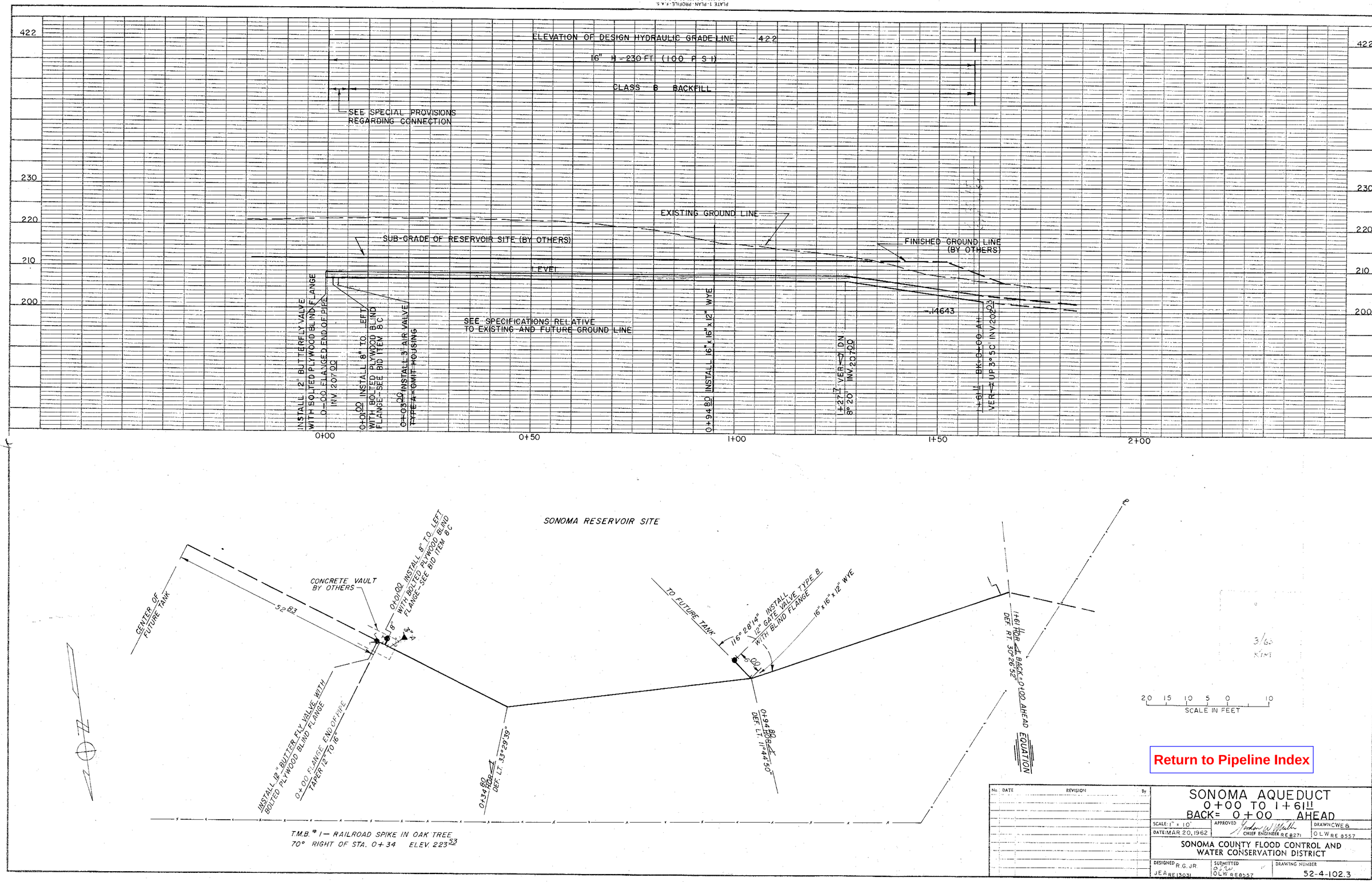
No.	DATE	REVISION	By
	4/62	END STA CORRECTED 887+27.02	KLL

SONOMA AQUEDUCT
PLAN & PROFILE INDEX

SCALE 1" = 4000' | APPROVED [illegible] CHIEF ENGINEER | DRAWN K.L.L. SKM.
DATE JAN 25, 1962 | G.R.S. RE 21727

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED G.R.S. | SUBMITTED [illegible] | DRAWING NUMBER 32-4-102.2



Return to Pipeline Index

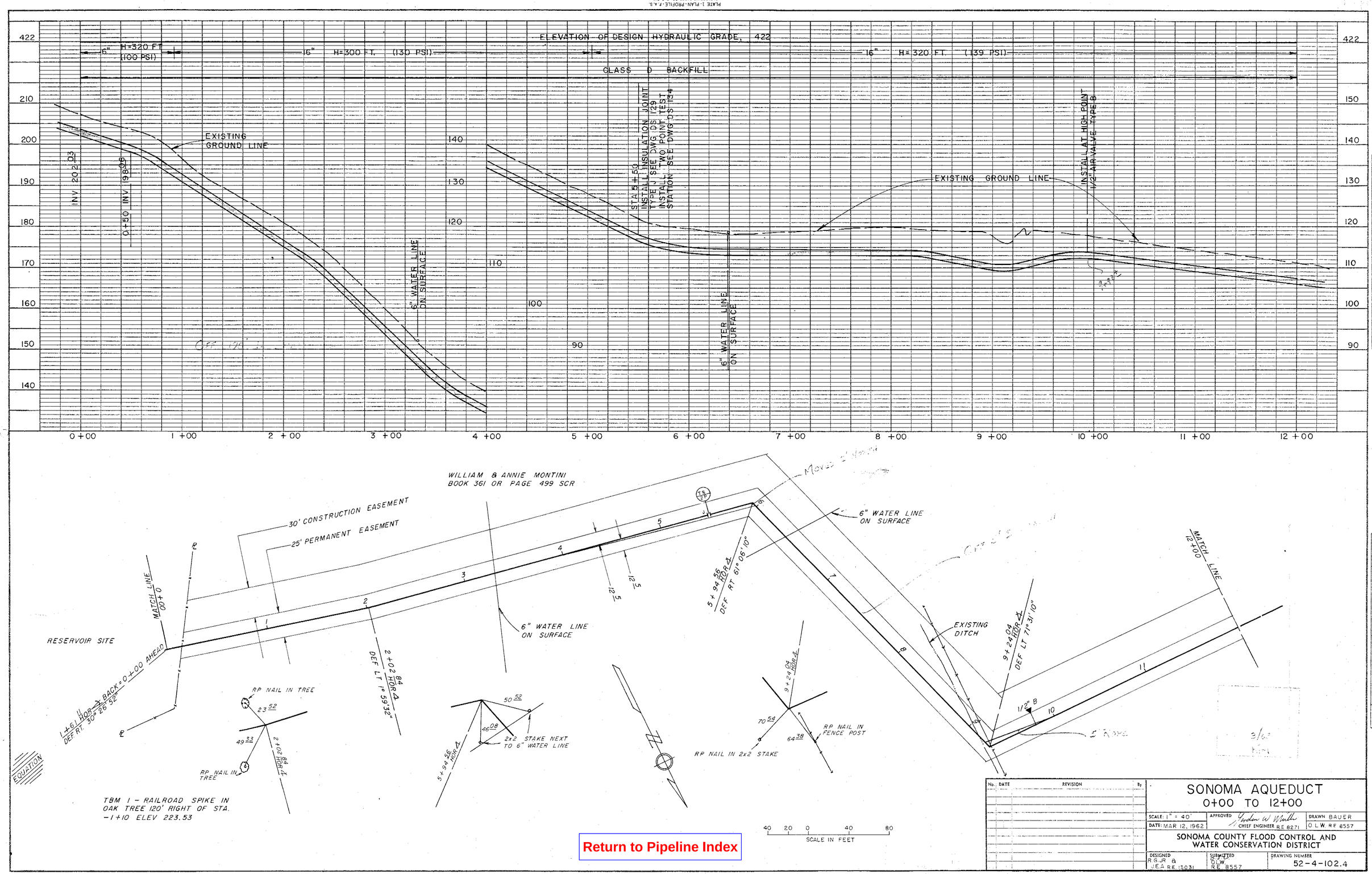
No.	DATE	REVISION	By

SONOMA AQUEDUCT
0+00 TO 1+61.11
BACK= 0+00 AHEAD

SCALE: 1" = 10'
DATE: MAR 20, 1962
APPROVED: CHIEF ENGINEER RE 8271
DRAWN CWE B
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.3



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
0+00 TO 12+00

SCALE: 1" = 40'
DATE: MAR 12, 1962
APPROVED: Gordon W. Mueller, CHIEF ENGINEER R.E. 8271
DRAWN BAUER, O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G.JR & J.E.A. R.E. 13031
SUBMITTED O.L.W. R.E. 8557
DRAWING NUMBER 52-4-102.4

PLATE 1. PLAN-PROFILE. F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 422

16" H=320 FT (139 PSI)

CLASS D BACKFILL

16" H= 340 FT (147 PSI)

16" H= 320' (139 PSI)

CLASS A BACKFILL

422 / 120 / 110 / 100

EXISTING GROUND LINE

4" WATER LINE

ELECTRIC CABLE

15 + 18.09 HOR ∠ AHEAD

EQUATION

16 + 92.17 HOR ∠ BACK

6+56 INSTALL 8" TO LT TYPE B, SEE DWG DS-118

INSTALL AT HIGH POINT ½" AIR VALVE, TYPE B

EXISTING PAVEMENT GRADE LINE

24" CMP

24"x24" CULVERT

WATER MAIN

12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

422 / 120 / 110 / 100 / 90 / 80

WILLIAM & ANNIE MONTINI
BOOK 361 O.R. PAGE 499 S.C.R.

RP NAIL IN 24" STUMP

RP NAIL IN FENCE POST

72 15

43 94

16 + 92.17 HOR ∠ BACK

15 + 18.09 HOR ∠ AHEAD

PUMP HOUSE

9 29

9 26

14 + 76.00 HOR ∠

10-0.0 AP.

Brand & Initials

5" WIDE EXPANSION JOINT

6" DEEP

5TH STREET WEST

EP

END

6" GAS MAIN

TURN OUT TO: VERANO & 5TH ST. WEST METER

24" CMP

A/V REMOVED 9/2/77

"CAPPED"

16"

VERANO

EP

DITCH

24" x 24" CULVERT

6" GAS MAIN

AVENUE

WATER MAIN

MATCH LINE 24+00

MATCH LINE 12+00

30' CONSTRUCTION EASEMENT

25' PERMANENT EASEMENT

ELECTRIC CABLE

6" WATER LINE (BURIED)

PUMP HOUSE (TO REMAIN IN PLACE)

GUYS

POWER POLE

POWER POLE (TO BE MOVED BY OTHERS)

4" WATER LINE ON SURFACE

14 + 76.00 HOR ∠ DEF LT 0° 47' 36"

PRIVATE

ROAD

16 + 92.17 HOR ∠ BACK

15 + 18.09 HOR ∠ AHEAD

DEF RT 0° 49' 26"

EQUATION

26 ANODES 6' DEEP @ 10' WEST 5/5/71

40 20 0 40 80
SCALE IN FEET

No.	DATE	REVISION	By

SONOMA AQUEDUCT
12+00 TO 24+00

SCALE: 1" = 40'
DATE: MAR 13/1962
APPROVED Gordon W Wells CHIEF ENGINEER R.E. 8271
DRAWN BAUER
O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G.J.R. & J.E.A.R.E. 13031
SUBMITTED O.L.W. R.E. 8557
DRAWING NUMBER 52-4-1025

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
R. M. E. NOTED
STRUCTURE NOTES SHOWN
NO.

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

Return to Pipeline Index

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

422
130'
120'
110'
100'
90'

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 422

16" H=320 FT. (139 PSI)

CLASS A BACKFILL

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

EXISTING PAVEMENT GRADE LINE

31+95 10 HOR.

DEFL RT. 0°05'50"

2-12" CMP CULVERTS

GAS MAIN

WATER MAIN

16" CMP CULVERT

24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00

"CAPPED" 1/2" B

GAS MAIN

2-12" CMP'S

"CAPPED" 1/2" B

ROBINSON RD.

EP

DITCH

25 26 27 28 29 VERANO AVE. 30 31 32 33 34 35

EP

WATER MAIN

DITCH

POWER POLE AT 680 VERANO AVE.

16" CMP

DITCH

WATER MAIN

P.P.

MATCH LINE 24+00

36+00 MATCH LINE

PG&E-PRIMARY ELECTRIC LINE, TELEPHONE & CABLE T.V. CROSSING OVER SON. AQ. - STA. 29+80 (APPROX.) AQ. IS 43" DEEP, CROSSING IS 36" LOCATED AQ.-9-26-57-10:30 A.M.

GAS MAIN

WATER MAIN

31+95 10 HOR.

DEFL RT. 0°05'50"

R.P. NAIL IN STUMP

R.P. NAIL IN GUY POLE

45 10

30 20

31+95 10 HOR.

40 20 0 40 80
SCALE IN FEET

T.B.M. # 3 RAIL ROAD SPIKE IN POWER POLE 15± RIGHT OF STA. 31+80 ELEV. 117.17

3/63 KM

Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT

24+00 TO 36+00

SC. 1" = 40' | APPROVED Gordon W. Smith CHIEF ENGINEER RE 8271 | DRAN. CWE | DATE JAN. 15 1962 | O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G.JR. & J.E.A. R.E. 13031 | SUBMITTED O.L.W. RE 8557 | DRAWING NUMBER 52-4-102.6

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R/W NOTED
STRUCTURE LOCATIONS CHK'D
NOTE BOOK
NO.
BY
DATE

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

PLATE 3-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 422

16" H = 320 (139 PSI)

CLASS A BACKFILL

EXISTING PAVEMENT GRADE LINE

37+33 INSTALL 8" TO LT TYPE B - SEE DWG DS118

GAS MAIN

6" SEWER

12" CMP

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

TELEPHONE CABLE

42+02 BEGIN CASING

WATER MAIN

BOTTOM OF CASING ELEV 1140

42+50 END CASING

TELEPHONE CABLE

WATER MAIN

INSTALL AT HIGH POINT 1" AIR VALVE, TYPE A

6" SEWER

STA 47+89.52
INSTALL INSULATION JOINT TYPE J SEE DWG DS 129
INSTALL TWO POINT TEST STATION SEE DWG DS 134

6" WATER MAIN

422 / 140 / 130 / 120 / 110 / 100

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00

PROFILE
SURVEYED
DRAWN
TRACED
GRADES CHECKED
R. OF WAY CHECKED
STRUCTURE DETAILS CHECKED

NOTE BOOK NO. ____

BY ____ DATE ____

DRY SAND, ~~SACK CEMENT GROUT~~ AT CONTRACTOR'S OPTION, BACKFILL PER GEN. SPECIFICATIONS AFTER INSTALLATION

1/4" BUTT WELDED STEEL CONDUCTOR CASING

30" DIA. CASING

MALONEY CROSSING INSULATOR, MODEL 55, 57, OR APPROVED EQUAL LOCATE AT QUARTER POINTS EACH PIPE SECTION. SEE NOTE 2.

STEEL ENCASEMENT

10' ON CENTERS

SECTION A-A

NOTES- 1. ALTERNATE PIPE COATING AS SPECIFIED NOT SHOWN
2. USE MALONEY CROSSING INSULATORS MODEL 57 ON CONCRETE COATED PIPELINE ~~AND MODEL 55 ON COAL TAR COATED PIPELINE~~

WARNING SIGN

5/14/71 - 13 ANODES ON SONOMA SIDE 6' DEEP & 3' EAST

STA. 39+90
8-22-94 V.O.M. INSTALLING NEW WATER SERVICE BORES THROUGH OUR 16" AQ. AND CONTINUES OUT OTHER SIDE. WE REPAIR WITH A PLATE & A WELD ON COUPLING WITH PLUG.

"CAPPED"

SONOMA STATE HIGHWAY 12

EP TELEPHONE CABLE

8"B

LOMITA AVE

DITCH

EP

GAS MAIN

M.H.

12" CMP

6" SANITARY SEWER

WATER MAIN

48" SO" JACKED CASING (SEE DETAIL ABOVE)

6" SANITARY SEWER

STA. 37+92 TEST STA. IN VALVE POT

MARCH 1987, INSTALLED 1 MAGNESIUM ANODE AT EACH JOINT, PRIOR TO ROADWORK & INTERSECTION IMPROVEMENTS.

MARCH 1987, PICMBO CONSTRUCTION POURS PROTECTIVE CONCRETE PAD OVER LENGTH OF AQ. STA # 37+92 TO 41+92. APPROX. 2' WIDE, 1' THICK & 1' OVER AQ. ALSO FROM STA. 45+50 TO 47+00 APPROX.

8-9-75 2/- 4" A.C. TELEPHONE DUCTS (TRANSITE) STACKED 3 WIDE - 3 HIGH - 72" TO BOTTOM OF TRENCH & OVER 16" AQ.

RP NAIL IN TEL POLE

RP NAIL IN POWER POLE

RP NAIL IN ℄ OF ROAD

RP NAIL IN ℄ OF ROAD

41+98.69 ℄ PCC

45+11.42 HOR ∧

47+48.43 HOR ∧

SANTA ROSA

WATER MAIN

TEL. TELEPHONE CABLE

STA. 43+93 TEST STA. IN VALVE POT

MARCH - APRIL 1987, INSTALLED 1 MAG. ANODE AT EACH JOINT

WELDED JOINTS NO ANODES

MAIN ST.

DEF LT 16° 27' 20"

DEF RT 7° 07' 00"

MH

6" WATER MAIN

1" ION

4" WATER FROM V.O.M. LINE TO PROPOSED CONSTRUCTION ON OTHER SIDE OF RT OF WAY TO METER VAULT

MATCH LINE 48+00

MATCH LINE 36+00

TBM 4: SOUTH EDGE OF MANHOLE RIM 32Ø RIGHT OF STA 46+10 ELEV 122.50

3/63 KIM

80 60 40 20 0 40
SCALE IN FEET

PLAN
SURVEYED
DRAWN
TRACED
GRADES CHECKED
R. OF WAY CHECKED
STRUCTURE DETAILS CHECKED

NOTE BOOK NO. ____

BY ____ DATE ____

Return to Pipeline Index

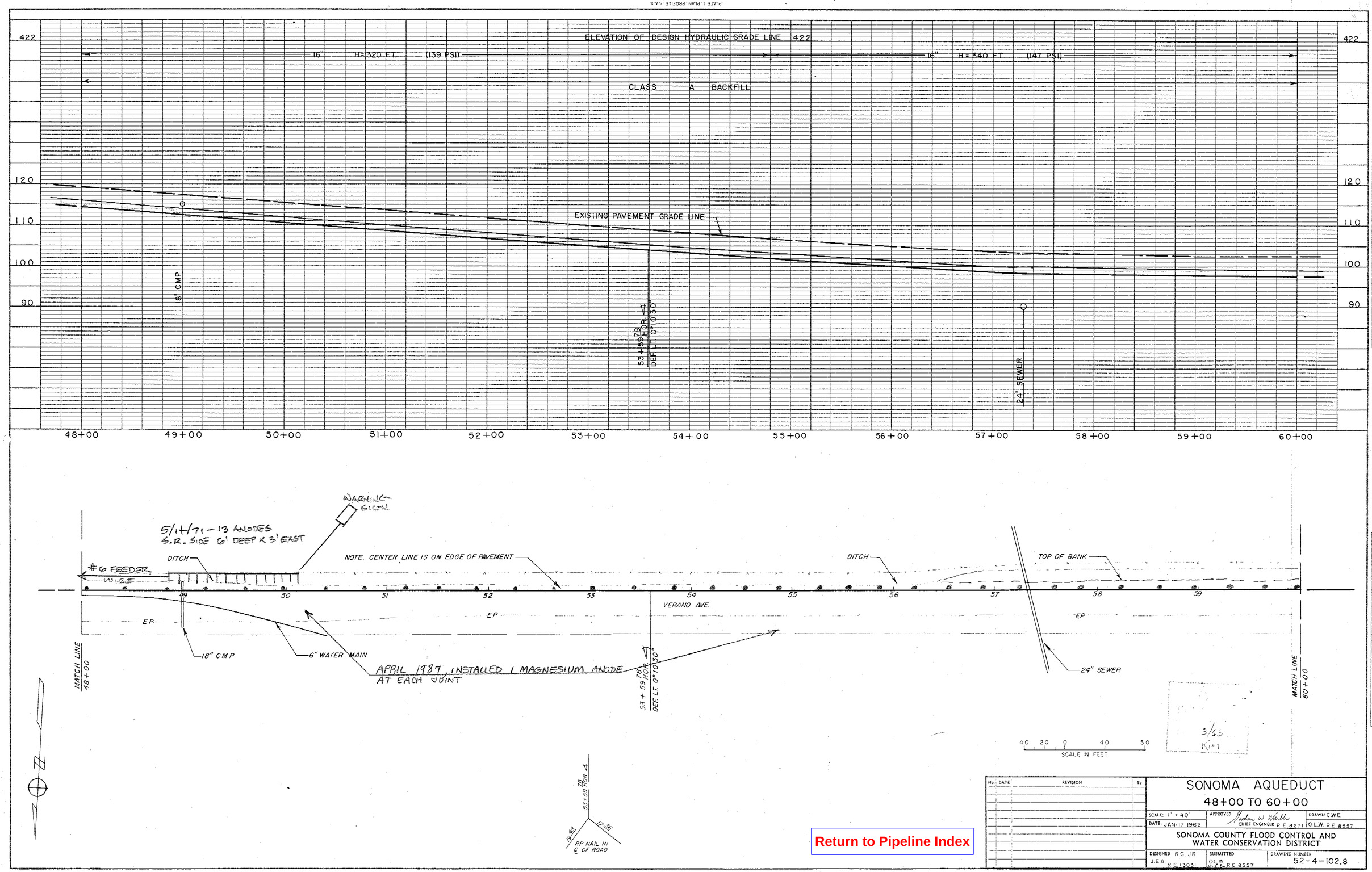
No.	DATE	REVISION	By

SONOMA AQUEDUCT
36+00 TO 48+00

SCALE: 1" = 40'
DATE: JAN - 17 - 1962
APPROVED Gordon W. Smith CHIEF ENGINEER R.E. 8271
DRAWN BAUER
O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G.JR. & J.E.A. R.E. 13031
SUBMITTED O.L.W. R.E. 8557
DRAWING NUMBER 52-4-102.7



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT

48+00 TO 60+00

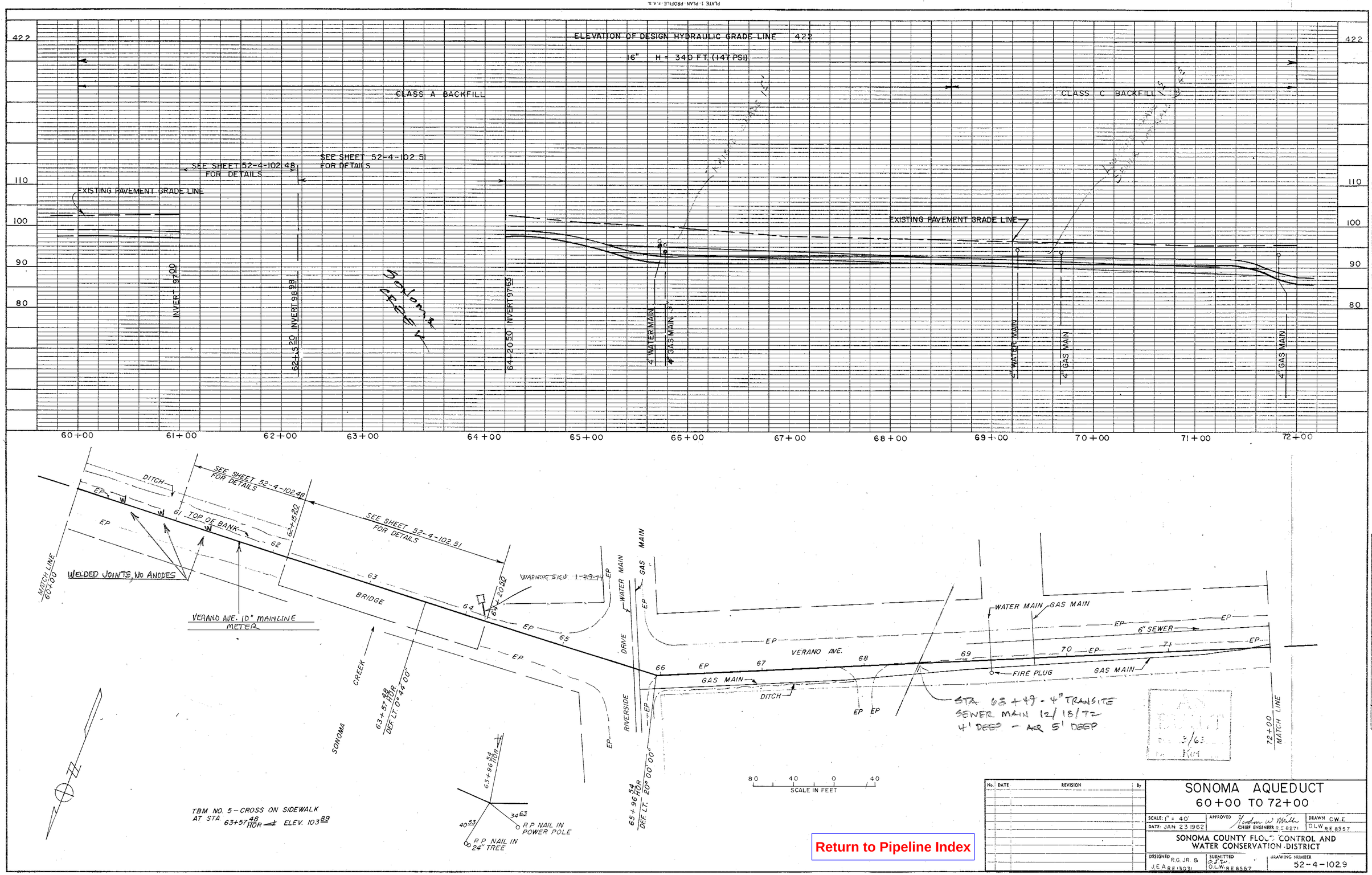
SCALE: 1" = 40'
DATE: JAN. 17 1962
APPROVED: Gordon W. Wells, CHIEF ENGINEER R.E. 8271
DRAWN C.W.E.
O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. J.E.A. R.E. 13031
SUBMITTED O.L.W. R.E. 8557
DRAWING NUMBER 52-4-102.8

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. & NOTED
STRUCTURE NOTATNS CH'K'D

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
60+00 TO 72+00

SCALE: 1" = 40'
DATE: JAN 23 1962
APPROVED: Gordon W. Mills, CHIEF ENGINEER R.E. 8271
DRAWN: C.W.E. O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R.G. JR. & J.E.A. R.E. 13031
SUBMITTED: O.L.W. R.E. 8557
DRAWING NUMBER: 52-4-102.9

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. & NOTED
STRUCTURE NOTATIONS CHK'D

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF HYDRAULIC GRADE LINE 422

16" H=340 FT (147 PSI)

CLASS C BACKFILL | CLASS A BACKFILL | CLASS C BACKFILL

422 / 110 / 100 / 90 / 80

3.5" 72+26 INSTALL 8" TO L.L. TYPE B-SEE DWG. DS-118

CULVERT

18" RCP

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

2" WATER MAIN

WOOD CULVERT

2" GAS MAIN

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

EXISTING PAVEMENT GRADE LINE

WOOD CULVERT

72+00 | 73+00 | 74+00 | 75+00 | 76+00 | 77+00 | 78+00 | 79+00 | 80+00 | 81+00 | 82+00 | 83+00 | 84+00

USC&GS BM Q205-1935, EL=98.20
500' LEFT of STA 74+27

74+27.50 HOR. ∠ DEF RT 89° 34' 30"

WATER MAIN
GAS MAIN
DITCH
18" RCP
DOUBLE 5'x4' CULVERT
WATER MAIN
DITCH
12-9-61 ROAD DEPT. REMOVED WOOD CULVERT & INSTALLED 8'-HALF ROUND C.M.P. CULVERT ON A CEMENT PAD 16" ABOVE A.G.
1#2 CULVERT
DITCH
RAILROAD AVENUE
DITCH
84+00 MATCH LINE

VERANO DRIVE
RAILROAD AVENUE
SEWER MAIN
SANITARY MANHOLE
5'5"Ø INSTALLED MAY-MARCH
8"B VERNO PIPE CULVERT STA.
5'2"x3'7" PULLMEN MFG. CO. 3003-3874 SAN. SEW.
OUTLET VAL.
DITCH INLET VAL.
TURN OUT TO: VERANO 6" METER 45.81
DITCH
72+00 MATCH LINE

RP NAIL IN FENCE POST
57.44
RP NAIL IN TELEPHONE POLE
74+27.50 HOR. ∠

ARBOR AVENUE
78+73.44 HOR. ∠ DEF RT. 9° 47' 00"
24.20
RP NAIL IN ℄ OF ROAD
26.72
78+73.44 HOR. ∠

80 60 40 20 0 40
SCALE IN FEET

Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
72+00 TO 84+00

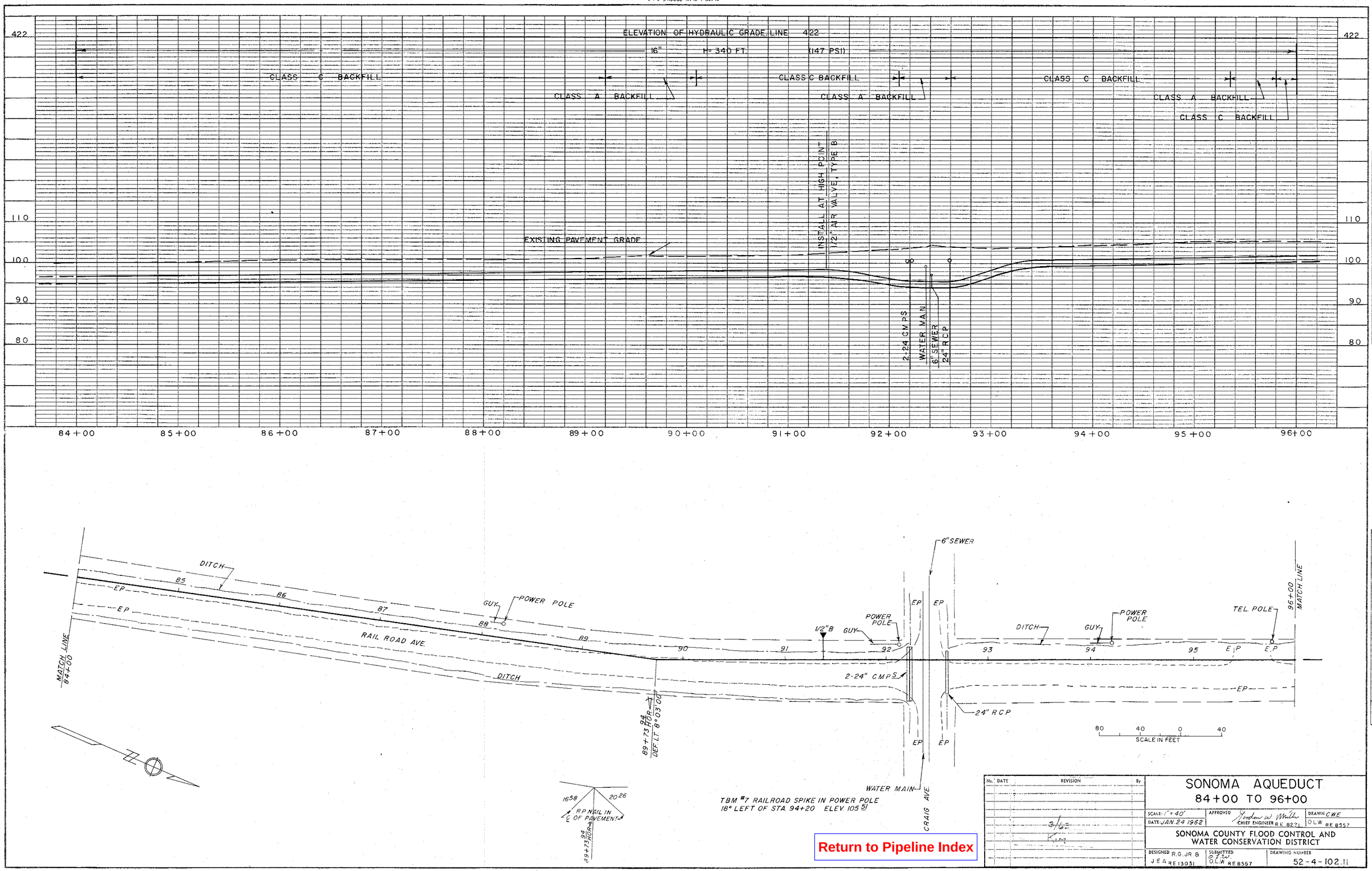
SCALE: 1" = 40'
DATE: JAN. 22, 1962
APPROVED Graham W. Miller CHIEF ENGINEER RE 8271
DRAWN BAUER O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G.J.R. & J.E.A. RE 13031
SUBMITTED O.L.W. RE 8557
DRAWING NUMBER 52-4-102.10

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
R/W & LINES STAKED
CONSTRUCTION STAKING CHECKED
BY
DATE

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



Return to Pipeline Index

No.	DATE	REVISION	By
		3/63	

SONOMA AQUEDUCT
84+00 TO 96+00

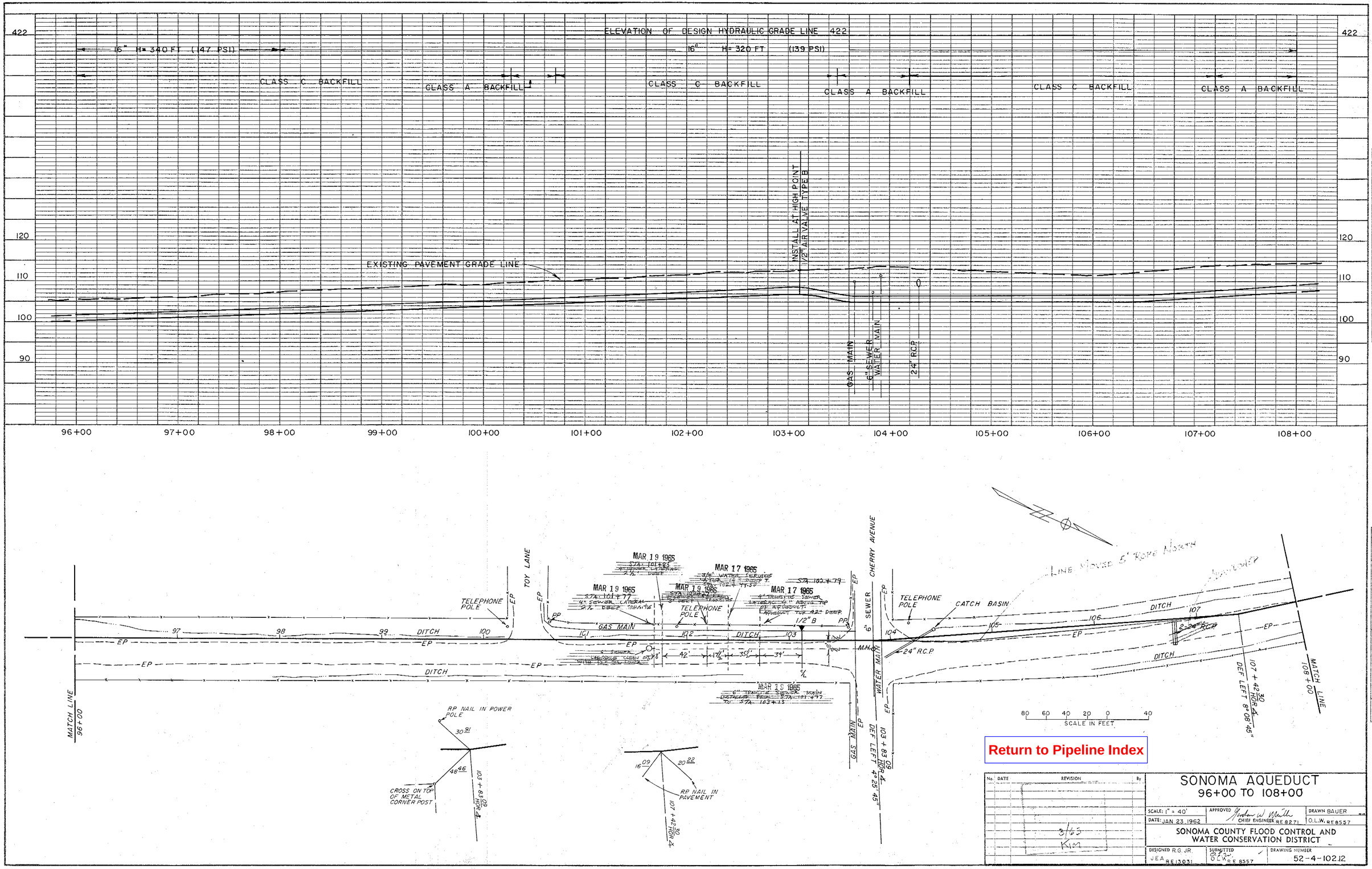
SCALE: 1" = 40'
DATE: JAN. 24 1962
APPROVED: Gordon W. Miller, CHIEF ENGINEER RE 8271
DRAWN: C.W.E. / O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R.G. JR. & J.E.A. RE 13031
SUBMITTED: O.L.W. / O.L.W. RE 8557
DRAWING NUMBER: 52-4-102.11

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. & NOTED
STRUCTURE NOTATIONS CHK'D
BY
DATE

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



Return to Pipeline Index

No.	DATE	REVISION	By
		3/65 KIM	

SONOMA AQUEDUCT
96+00 TO 108+00

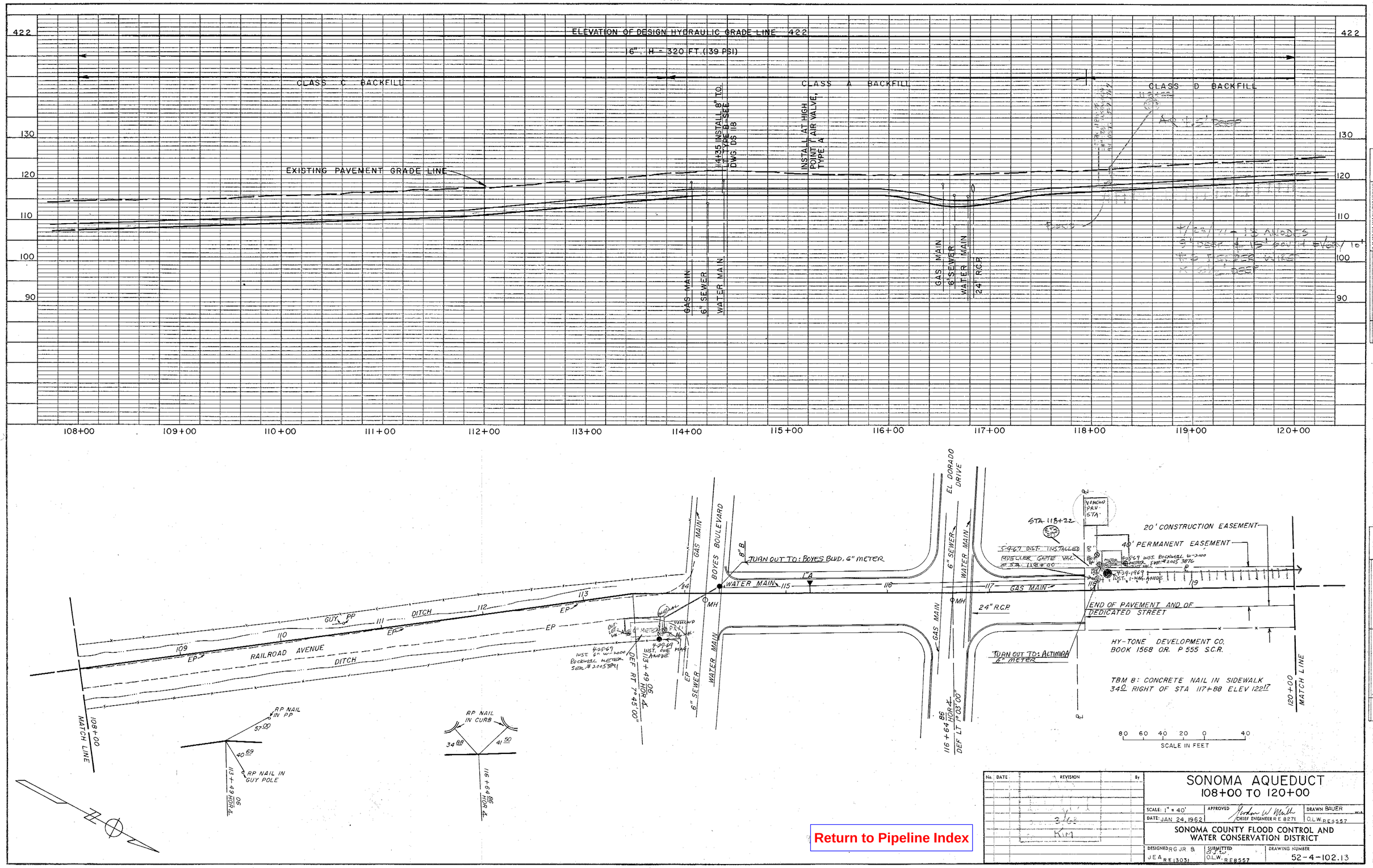
SCALE: 1" = 40'
DATE: JAN 23, 1962
APPROVED: Gordon W. Mills, CHIEF ENGINEER RE 8271
DRAWN BAUER
O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. JEA RE 13031
SUBMITTED O.L.W. RE 8557
DRAWING NUMBER 52-4-102.12

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHK'D
BY
DATE

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



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
108+00 TO 120+00

SCALE: 1" = 40'
DATE: JAN 24, 1962
APPROVED: Gordon W. Mills, CHIEF ENGINEER R.E. 8271
DRAWN: BAUER, O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R.G. JR. & J.E.A. RE 13031
SUBMITTED: O.L.W. RE 8557
DRAWING NUMBER: 52-4-102.13

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. & NOTED, STRUCTURE NOTATIONS CHK'D
PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1008H-1

ELEVATION OF HYDRULIC GRADE LINE 422

16" H=320 FT (139 PSI)

16" H=300 FT (130 PSI)

CLASS D BACKFILL

CLASS C BACKFILL

CLASS D BACKFILL

CLASS A BACKFILL

CLASS D BACKFILL

CLASS C BACKFILL

422 / 140 / 130 / 120 / 110

INSTALL AT HIGH POINT 2" AIR VALVE, TYPE A

136+35 INSTALL 2" AIR VALVE, TYPE D

EXISTING GROUND LINE

18" RCP

3" WATER LINE

3/4" WATER LINE

STA 144+35
INSTALL INSULATION JOINT
TYPE J SEE DWG. DS 129
INSTALL TWO POINT TEST
STATION SEE DWG DS 134

145+82 INSTALL 1/2" AIR VALVE, TYPE B

LEVEL

LEVEL

145+84 VER
INV. 127.88
DN 26°34

146+00 VER
INV. 119.28
UP 26°34

146+10 VER
INV. 119.22
UP 26°34

146+28 VER
INV. 128.48
DN 26°34

120+00 | 125+00 | 130+00 | 135+00 | 140+00 | 145+00 | 150+00

PERMANENT EASEMENT NORTHWESTERLY 40'— OF FORMER SO. PAC. RR R/W
CONSTRUCTION EASEMENT SOUTHEASTERLY 20'— OF FORMER SO. PAC. RR R/W

TBM—RR SPIKE IN 24" OAK STUMP
42' RIGHT OF STATION 138+45
ELEV 131.8

5/11/91 - 32 TOTAL ANODES
10' DEEP & 11' SOUTH OF ASP

MATCH LINE

4/23/91 - 14 ANODES
9' DEEP & 15' SOUTH
TO 121+32

10-7-70 1-ANODE 5' SOUTH OF THE WATER BOULDER TO ASP JT.

ET5

2"A

CECIL A. SAUNDERS
BOOK 624 OR PAGE 126 SCR
BOOK 1358 OR PAGE 300 S.C.R.

Cotatti Creek Ct.

DIRT ROADWAY

OLD RAILROAD BED

HY-TONE DEVELOPMENT CO.
BOOK 1568 OR PAGE 555 SCR

"RYAN'S BOG" WALT RYAN BURIES BACK HOE (FOLLOWING DAVE OWENS ORDERS) 3 TRUCKS & 1 OTHER TRACTOR NEEDED TO REMOVE AGENCYS HOE FROM MUD. APPROX. 1976.

126+68 53 BOR ⊥ DEF. RT. 0°00'00"

RP NAIL IN 24" OAK
58 36
37 98
RP NAIL IN 10" TREE

LINE CHANGE 4° LT. ROPE

BROOKS VAL. + PIT.

TURN OUT TO: ARDALAN 1" METER
134+85

16 ANODES

CONCRETE CULVERT

FORMERLY SO PAC RR R/W

GUY

136+35 88 BOR ⊥ DEF. RT. 0°04'00"

EMIL & CARMEN WAIDMANN
BOOK 893 O.R. PAGE 162 S.C.R.

PAVED ROADWAY

2% 16 ANODES

137+95

2.0

3/4" 100

10'

HORSE BARN TO REMAIN IN PLACE

RP NAIL IN 24" OAK
45 29
RP NAIL IN POWER POLE
45 72

TURN OUT TO: HAYDEN METER

TS 2B

1/2"B

12"RCP

DITCH

PAVED ROADWAY DITCH

WOODEN BRIDGE TO REMAIN IN PLACE

GAS MAIN

CONCRETE WALL TO REMAIN IN PLACE

END GAS MAIN

TEDDY BELLOIS PIERCE
BOOK 1528 O.R. PAGE 282 SCR

10-7-70 1-ANODE 5' SOUTH OF THE WATER BOULDER TO ASP JT.

JUNE-JULY 1994 1 ANODE, 1 BOND

LEON & ELANOR De SIMONE
BOOK 710 OR PAGE 469 SCR
BOOK 1546 OR PAGE 258 SCR

MATCH LINE

120+00

150+00

100 50 0 50 100 200
SCALE IN FEET

Return to Pipeline Index

No.	DATE	REVISION	By
		3/6" R.M.A.	

SONOMA AQUEDUCT
120+00 TO 150+00

SCALE: 1" = 100'
DATE: 1/25/1962
APPROVED Gordon W Miller CHIEF ENGINEER RE 8271
DRAWN SKMc
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR B. JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.14

PLAN
SURVEYED
PARTY CHIEF
GRADES CHECKED
R.M. & NOTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
DATE
BY

PLATE 1. PLAN-PROFILE. F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 422

6" I = 300 FT. (130 PSI)

422 / 150 / 140 / 130 / 120

CLASS C BACKFILL — CLASS A BACKFILL — CLASS D BACKFILL — CLASS A BACKFILL — CLASS D BACKFILL

EXISTING GROUND LINE

STA 164+35.40 INSTALL INSULATION JOINT TYPE J SEE DWG DS 129 INSTALL TWO POINT HEAT STATION SEE DWG DS 1314

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

INSTALL AT HIGH POINT - 4" TOWNSEND AIR VALVE AREA - TYPE E SEE DWG DS 1316

153+95 INSTALL 8" TEE LEFT TYPE B SEE DWG DS 18

1" GAS MAIN — WATER MAIN — 6" GAS MAIN — 8" SANITARY SEWER — 4" WATER MAIN — 1" WATER MAIN — 24" CULVERT — 2" WATER MAIN — 1" WATER MAIN POWER LINE — 24" CULVERT

150+00 — 155+00 — 160+00 — 165+00 — 170+00 — 175+00 — 180+00

10" AQ TO VOMCWD 2 MG TANK FROM 10" METER FROM 154+64

AGUA CALIENTE RD.

PERMANENT EASEMENT: THE CENTRAL 40' OF FORMER SO. PAC. RR R/W
CONSTRUCTION EASEMENT: THE NORTHWESTERLY 10' AND THE SOUTHWESTERLY 10' OF FORMER SO PAC RR R/W
} EXCEPT WHERE SHOWN OTHERWISE

TEDDY & LOIS PIERCE
BOOK 1528 OR PAGE 282 S.C.R

ARCH BISHOP HANNAH CENTER FOR BOYS
BOOK 746 O R PAGE 140 S.C.R.

CLARENCE RICKS, ET AL
BOOK 431 O.R. PAGE 425 S.C.R.
BOOK 631 O.R. PAGE 160 S.C.R.
BOOK 431 O.R. PAGE 420 S.C.R
BOOK 1645 O.R. PAGE 31 S.C.R

ALBERT & CHRISTINE HASKELL
BOOK 1701 OR PAGE 258 S.C.R.

T.B.M.
#20 SPIKE VERTICALITY ON KNOB OF 24" OAK 33' LEFT OF STA. 175+00
ELEV. 143.00

9-4-75 INSTALLED 10" POLYWALK METER SER.# 2376159 (W-3520) STA. 154+64

WATER MAIN — EP — 6" GAS MAIN — WARWICK SIGN 1-28-74 — 8" SANITARY SEWER — POWER POLE — DITCH 6" METER GAS MAIN — 6" GATE VALVE — 6" GATE VALVE — 6" GAS METER BOX (TESTS) STA. 154+40 1-13-75 — 155 FEET INSTALLED 8" GAS MAIN 39" DEEP — DITCH 10" — STA. 154+64 — STA 153+29 4-SPEED CONTROL INSTALLED ONE ANODE — 11-28-73 3/4" GALV. STEEL CONDUIT 24" DEEP SEC. SERVICE NO VOLTS TO 10" MTR. STATION — 20' CONSTRUCTION EASEMENT — 40' PERMANET EASEMENT

4" WATER MAIN — 1" WATER LINE — 24" CULVERT — OLD RAIL ROAD BED — 165+71 — STA 160+82 2" MSTR HANNA POWER CENTER HEIGHT MODULE 2" SER.# 4166358 — FORMER SO. PAC. RR — R 164+35

5/21/71 - 15 ANODES 6' DEEP & 12' SOUTH

CHICKEN HOUSE WITH CONC. FLOOR TO BE REMOVED — 1" WATER LINE — 24" CULVERT — OLD RAIL ROAD BED — POWER POLE — LINE CHANGE — 2" WATER MAIN — POWER LINE — PUMP HOUSE (TO REMAIN IN PLACE) — DITCH — DIRT ROAD — EP EP GUY — SCRUBS — 40' PERMANENT EASEMENT — 20' CONSTRUCTION EASEMENT

MATCH LINE 150+00 — MATCH LINE 180+00

152+00.00 HOR. DEF. RT. 3°26'00" — 154+04.90 HOR. DEF. LT. 3°31'00" — 173+29.76 HOR. DEF. RT. 0°04'15"

JULY 1994 1 ANODE, 1 BOND — NO WATER AT PIPELINE

LINE CHANGE - 5' WEST FROM STA. 152+00 TO STA 173+50

R.P. NAIL IN JOINT POLE — 45.33 — R.P. NAIL IN PEAR TREE — 35.04

R.P. NAIL IN JOINT POLE — 34.72 — 33.29 — R.P. USCB&GS MON P205

B.M.
U.S.C.& G.S. STANDARD MONUMENT
NO. "P" 205 30' RIGHT OF
STA. 153+88 ELEVATION 139.34

R.P. NAIL IN 30" OAK 50.75 — 65.58 — R.P. NAIL IN FENCE POST — 168+35.90

R.P. NAIL IN 24" OAK — 44.60 — 52.18 — R.P. NAIL IN 10" OAK — 173+29.76

200 150 100 50 0 100
SCALE IN FEET

Return to Pipeline Index

No.	DATE	REVISION	By
		AS BUILT	
		3/63	
		KM	

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

SONOMA AQUEDUCT 150+00 TO 180+00

SCALE: 1" = 100' — DATE: JAN. 26 1962 — DESIGNED R.G. JR. — JEA REF 13021

APPROVED Yoshan W Miller CHIEF ENGINEER RE 8271 — DRAWN CWE — CHECKED OLW RE 8557

SUBMITTED C.F. 12 OLW RE 8557

DRAWING NUMBER 52-4-102.15

PLATE 1. PLAN - PROFILE - E. A. S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 422

16" H = 300 FT. (130 PSI)

6" H = 280 FT. (121 PSI)

16" H=260 FT.(113 PSI)

CLASS D BACKFILL

CLASS A BACKFILL

CLASS B BACKFILL

CLASS D BACKFILL

CLASS D BACKFILL

CLASS B BACKFILL

CLASS B BACKFILL

183+20 INSTALL 6" TO LT. TYPE B - SEE DWG. DS 118

CONC. CULVERT

192+50 INSTALL 16" GATE VALVE, TYPE B, AND AIR VALVE, TYPE C

2" PLASTIC WATER LINE

GROUND LINE

EXISTING WOOD PILES

LEVEL

LEVEL

CHENEY CREEK

CATTLE CROSSING

4" IRRIGATION LINE

422 / 170 / 160 / 150 / 140 / 130

180+00 185+00 190+00 195+00 200+00 205+00 210+00

196+00 0.000 VER. FT. DN. 45° DEF. INV. 150.00

196+20 0.000 VER. FT. UP 45° DEF. INV. 150.00

198+20 0.00 VER. FT. UP 45° DEF. INV. 139.00

198+55 0.00 VER. FT. DN 45° DEF. INV. 138.00

7/16/72 - YOMCWD
FIRE HYDRANT @ 182+00

HUGH & CAROLYN DILLMAN
BOOK 1472 O.R. PAGE 445 S.C.R.

PERMANENT EASEMENT — THE CENTER 40' OF FORMER SO. PAC. R.R. R.W.
CONSTRUCTION " THE NORTH WESTERLY 10' AND SOUTH EASTERLY 10' OF FORMER SO. PAC. R.R. R.W. } EXCEPT WHERE SHOWN OTHERWISE

ALBERT & CHRISTINE HASKELL
BOOK 1701 O.R. PAGE 258 S.C.R.

RICHARD & SYLVIA THOMSSEN
BOOK 1347 O.R. PAGE 155 S.C.R.

EDWARD & NELLIE DEFFENBAUGH
BOOK 1280 O.R. PAGE 437 S.C.R.

ROSEMARY KEMPER JOHNSTON
BOOK 918 O.R. PAGE 434 S.C.R.
BOOK 1009 O.R. PAGE 406 S.C.R.

DUNCRAGGAN RANCH, INC.
BOOK 1237 O.R., PAGE 532 S.C.R.

20' CONST. EASEMENT
40' PERMANENT EASEMENT
ROCK WALL TO BE LEFT IN PLACE
DITCH
8' CONCRETE CULVERT
OLD RAIL ROAD BED
GUY
POWER POLE
TOP OF CUT BANK
SMALL CREEK
OLD BRIDGE PILES REMOVE AS NECESSARY
ROCK ROAD
TOP OF BANK OF SONOMA CREEK
200+10 - 2" GATE VALVE & LID IN ROADWAY TURN OUT TO HUNTER METER
OLD RAIL ROAD BED
CATTLE GUARD
4" IRRIGATION LINE
210+00 MATCH LINE
FORMER S.P.R.R. R.W.
PLASTIC WATER LINE
GABY GRIMM PLUGS LEAK WITH BROOM HANDLE AFTER OTHERS FAIL.
JULY-AUGUST 1994 INSTALLED 1 ANODE, 1 BOND, STILL NO WATER ALONG PIPELINE
STA. 197+45 ± 1 WIRE CONNECTED ONE WIRE ABOVE WITH TWO WIRES CONNECTED TO SIDE OF 1" AIR VALVE
R.A. DOMINGUEZ
BOOK 1303 O.R. PAGE 36 S.C.R.
MATCH LINE 180+00
LINE CHANGE 5' WEST
186+76 06 HOR. DEF. RT. 10° 32' 00"
193+88 70 HOR. DEF. RT. 2° 21' 15"
197+91 45 HOR. DEF. RT. 6° 07' 30"
201+94 65 HOR. DEF. RT. 10° 53' 45"

R.P. NAIL IN 6" OAK — 43 73
R.P. NAIL IN JOINT POLE — 29 65
R.P. NAIL IN 12" OAK — 39 33
R.P. NAIL IN 8" OAK — 74 20
R.P. NAIL IN 16" OAK — 37 22
R.P. NAIL IN 30" OAK — 70 28
R.P. NAIL IN 16" OAK — 18 89
NAIL & FLAGING IN CORNER FENCE POST — 38 31

200 150 100 50 0 100
SCALE IN FEET

TBM #9 NAIL IN POWER POLE 209 LEFT OF STA. 196+15.00 ELEV. 158.19

Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
180+00 TO 210+00

SCALE: 1" = 100' | APPROVED Gordon W Mills CHIEF ENGINEER R.E. 8271 | DRAWN C.W.E.
DATE: 1-30-1962 | L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. J.E.A. R.E. 13031 | SUBMITTED O.L.W. R.E. 8557 | DRAWING NUMBER 52-4-102.16

PROFILE
SURVEYED
ALIGNMENT CHECKED
BY OF WAY CHECKED
NOTE BOOK
NO.
PLAN
SURVEYED
ALIGNMENT CHECKED
BY OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO., S. F., CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 422

6" H = 260 FT. (113 PSI)

CLASS B BACKFILL

CLASS D BACKFILL

INSTALL AT HIGH POINT 1" AIR VALVE, TYPE A

21+14 INSTALL 2" AIR VALVE TYPE D

CATTLE GUARD 2 CMP

3/4" WATER LINE

4" IRRIGATION PIPE

16" H = 280 FT. (121 PSI)

CLASS D BACKFILL

CLASS B BACKFILL

CLASS D BACKFILL

CLASS B BACKFILL

CLASS D BACKFILL

223+45 INSTALL 16" GATE VALVE TYPE B AND 1" AIR VALVE, TYPE C

SEE SHEET 52-4-102.52 FOR DETAILS

28+ $37 INV. 62.90

29+42.96 INV. 62.90

18" SANITARY SEWER

EXISTING GROUND LINE

6" H = 260 FT. (113 PSI)

CLASS A BACKFILL

CLASS B BACKFILL

228+05 INSTALL 8" I.C. V. TYPE B - SEE DWG DS 118

23+28 INSTALL 8" I.C. V. TYPE D

PT&T CABLE

PT&T CABLE

PT&T CABLE

WATER LINE

210+00 215+00 220+00 225+00 230+00 235+00 240+00

422 190 180 170 160 150 140

DUNCRAGGAN RANCH, INC.
BOOK 1237 O.R. PAGE 532 S.C.R.
PERMANENT EASEMENT - THE CENTER 40' OF FORMER SO. PAC. RAILROAD RIGHT OF WAY
CONSTRUCTION EASEMENT - THE WESTERLY 10' AND THE EASTERLY 10' OF FORMER SO. PAC. RAILROAD RIGHT OF WAY

PETER DOMENICI ET AL
BOOK 1472 O.R. PAGE 413 S.C.R.
BOOK 1123 O.R. PAGE 122 S.C.R.
BOOK 1123 O.R. PAGE 126 S.C.R.
BOOK 1156 O.R. PAGE 431 S.C.R.

TBM #10 RAILROAD SPIKE IN POWER POLE 3½ LEFT OF STA. 228+00 ELEV. 169.29

HENRY PARDUCCI & NORTHWESTERN PACIFIC R.R.
BOOK 1472 O.R. PAGE 412 S.C.R.
BOOK 1123 O.R. PAGE 122 S.C.R.
BOOK 1123 O.R. PAGE 126 S.C.R.

E.R. & JANET HANFORD
BOOK 1614 O.R. PAGE 388 S.C.R.

25' PERMANENT EASEMENT
30' CONST. EASEMENT

CATTLE GUARD
12" C.M.P.
4" IRRIGATION LINE
3/4" WATER LINE
END OF 4" IRRIGATION LINE 210+50
CATTLE GUARD
MATCH LINE 210+00
210+15
1" AIR VALVE
RELOCATE 4" IRRIGATION LINE ON TOP OF GROUND ALONG FENCE FROM STA. 214+00 TO END
IRRIGATED PASTURE
5/26/71 - 15 ANODES 6' DEEP & 10' SOUTH
STA. 219+23.9 BEG. 330-00 INSTALL CHAIN LINK GATE 24 X 5'-0"
30' CONST. EASEMENT
25' PERMANENT EASEMENT
VINEYARD
M.H.
SONOMA CREEK
18" SANITARY SEWER
6/2/71 - 3 ANODES 6' DEEP & 10' SOUTH
6/2/71 - 10 ANODES 6' DEEP & 10' SOUTH
16" BONDED ARC WELD 16" VALVE
SEE SHEET 52-4-102.52 FOR DETAILS
FINISH NAILS & FLAGING IN GRAPE VINES
FLAGING & NAILS IN CONCRETE WING WALLS
R.P. NAIL IN GRAPE STAKE
R.P. NAIL IN TEL. POLE
R.P. NAIL IN POWER POLE
R.P. NAIL IN ℄ OF PAVEMENT
RP NAIL IN GRAPE STAKE
RP NAIL IN GRAPE STAKE
10"-0"-10" ASPHALTIC CONCRETE ON 6" CLASS 3 AGGREGATE BASE TO MATCH EXISTING
2-1" DIA. TEL CABLES DIRECT BURIED 30" DEEP
WATER LINE
POWER POLE
MADRONE ROAD
FARM ROAD
VINEYARD
1" ROPE
TELEPHONE
TEL. LINE
MATCH LINE 240+00
24 MAS. ANODES INSTALLED FROM NEAR MADRONE RD. TO NEAR HANFORD METER AT EACH JOINT. SKIPPED 3 JOINTS AT TELEPHONE CABLE CROSSING JULY 1971
STEEL FENCE POST
R.P. NAIL IN GATE POST
200 100 0 50 100
SCALE IN FEET

TBM "A" CONC. NAIL 8.5' RIGHT STA. 218+16 ELEV. 167.72

TBM "B" CONC. NAIL 8.5' LEFT STA. 219+42 ELEV. 167.32

NOTES—
1. 4" IRRIGATION LINE IS STEEL PIPE WITH WELDED JOINTS
2. AT STA. 214+00, 4" IRRIGATION LINE IS APPROXIMATELY 3.5' FROM CENTERLINE

Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
210+00 TO 240+00

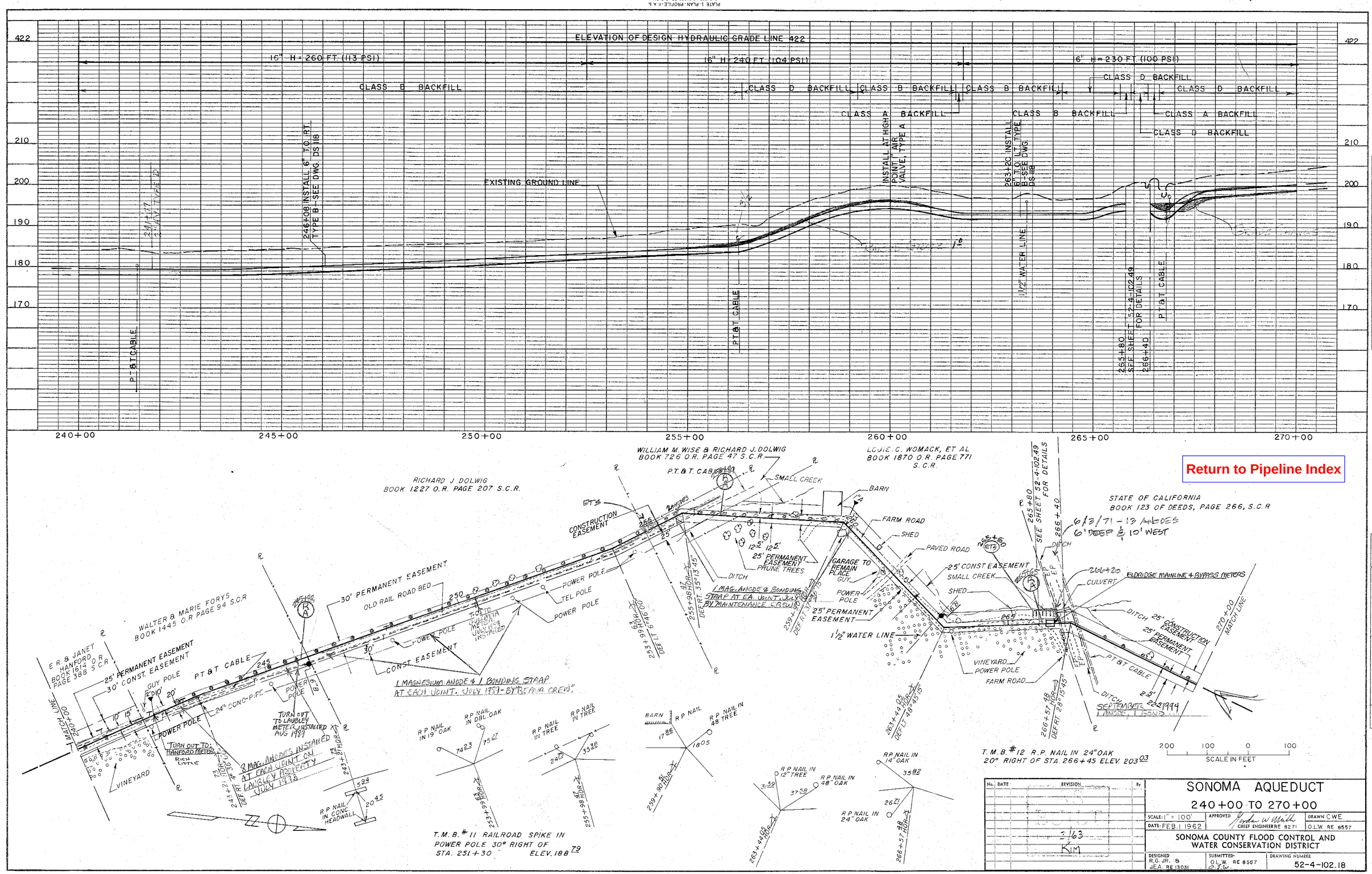
SCALE: 1" = 100' | APPROVED: Gordon W. Mitchell, CHIEF ENGINEER R.E. 8271 | DRAWN C.W.E.
DATE JAN. 19 1962 | O.L.W. R.E. 6557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. J.E.A. R.E. 13031 | SUBMITTED O.L.W. R.E. 6557 | DRAWING NUMBER 52-4-102.17

PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
GRADES CHECKED
R.W. ENTERED
STRUCTURAL DETAILS CHECKED
BY
DATE

PLAN
NOTE BOOK NO. ____
SURVEYED
PLOTTED
PROPERTY LINES CHECKED
R.W. ENTERED
PT. OF MAT CHECKED
BY
DATE



Return to Pipeline Index

No.	DATE	REVISION	By
		3/63 KIM	

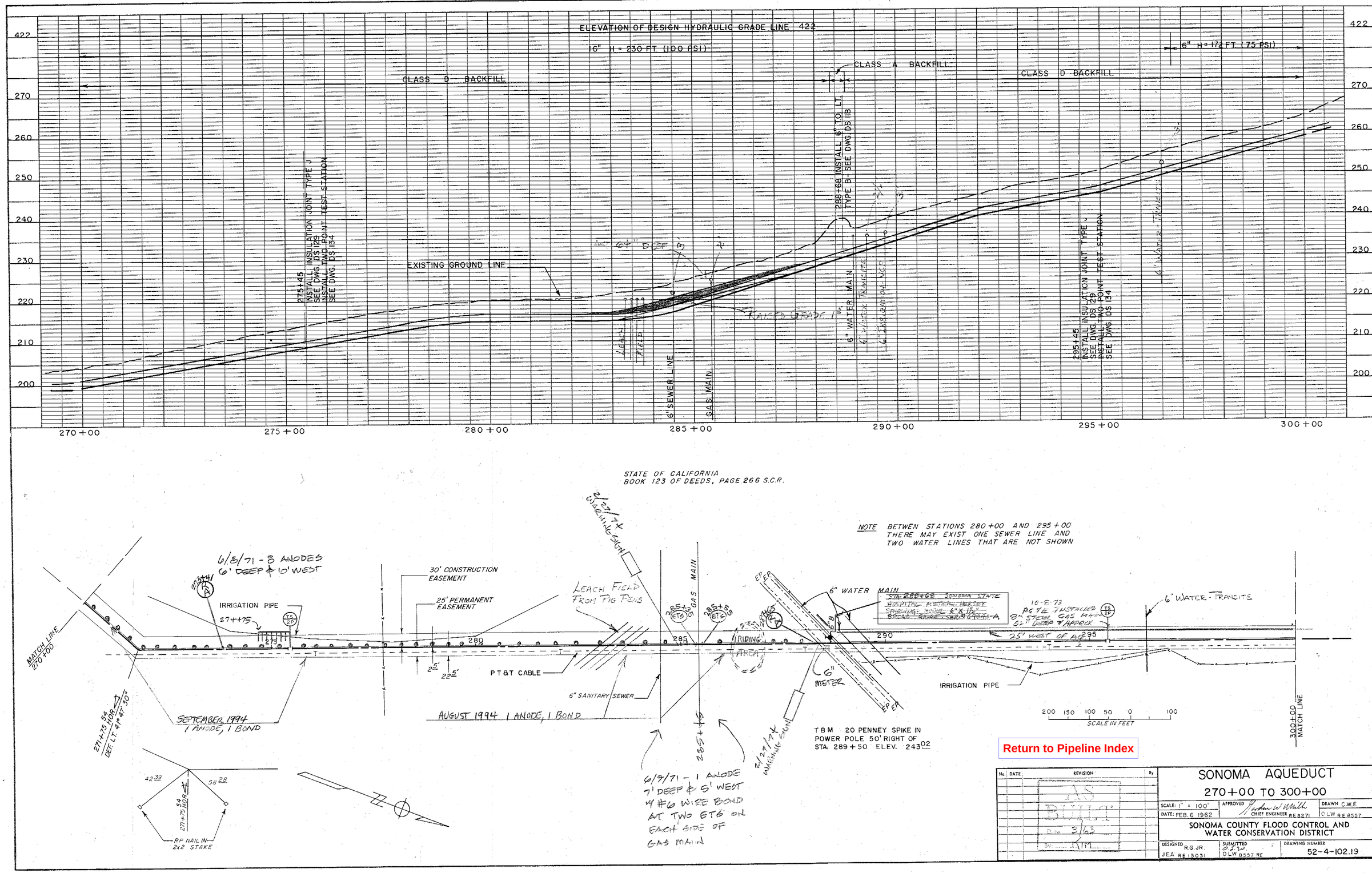
SONOMA AQUEDUCT

240+00 TO 270+00

SCALE: 1" = 100'
DATE: FEB. 1 1962
APPROVED: Jordan W. Mills, CHIEF ENGINEER RE 8271
DRAWN: C.W.E.
O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R.G. JR. & J.E.A. RE 13031
SUBMITTED: O.L.W. RE 8557
DRAWING NUMBER: 52-4-102.18



Return to Pipeline Index

No.	DATE	REVISION	By
		AS BUILT Date 3/63 By KIM	

SONOMA AQUEDUCT

270+00 TO 300+00

SCALE: 1" = 100'
DATE: FEB. 6 1962
APPROVED [signature] CHIEF ENGINEER RE 8271
DRAWN C.W.E. O.L.W. RE 8557

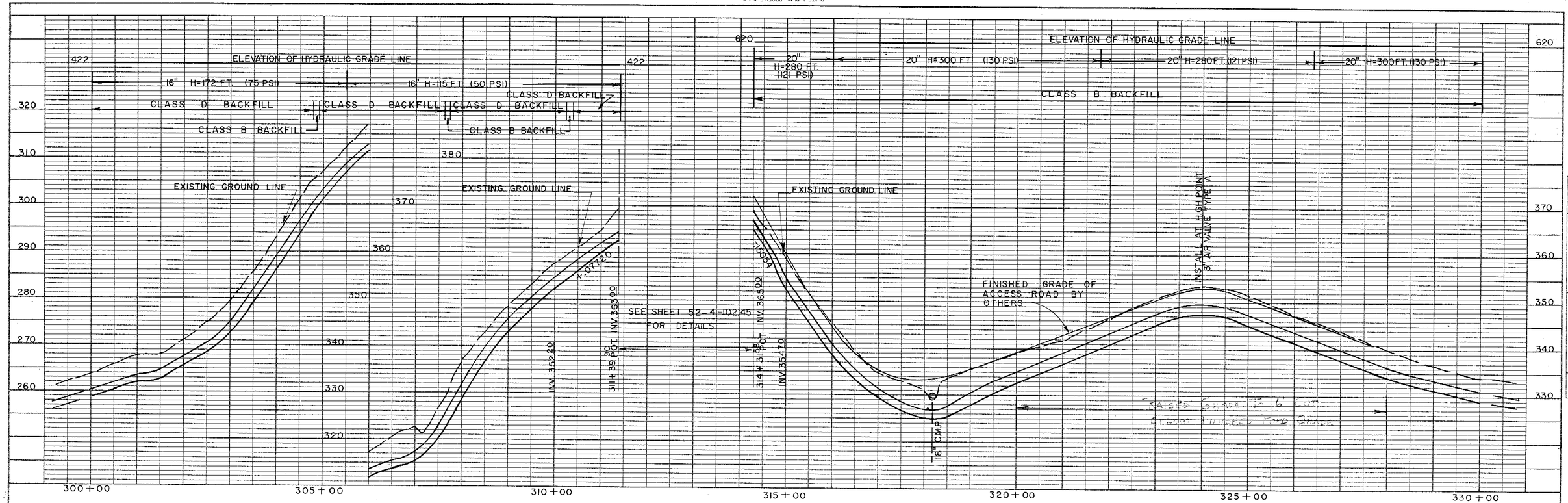
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G.JR. JEA RE 13031
SUBMITTED O.L.W. O.L.W. 8557 RE
DRAWING NUMBER 52-4-102.19

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. & NOTES
STRUCTURE NOTATIONS CH'K'D
BY
DATE

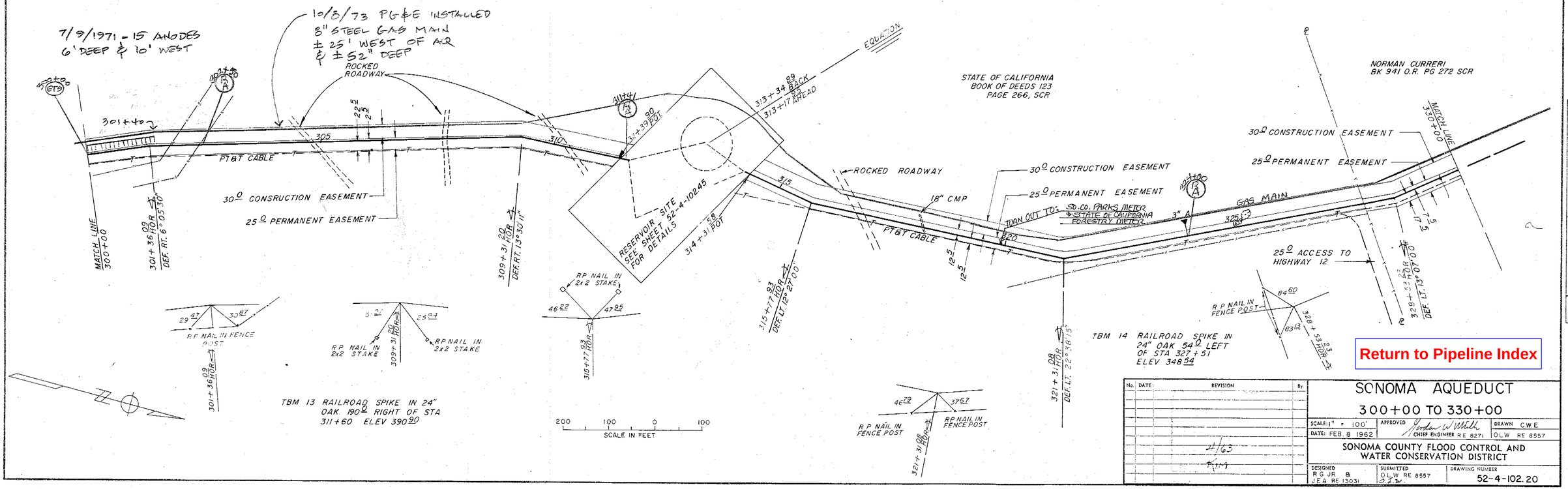
PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1



7/9/1971 - 15 ANODES 6' DEEP & 10' WEST

10/5/73 PG&E INSTALLED 8" STEEL GAS MAIN ± 25' WEST OF ACQ & ± 52" DEEP



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT

300+00 TO 330+00

SCALE: 1" = 100'
DATE: FEB. 8 1962
APPROVED Gordon W. Wells CHIEF ENGINEER RE 8271
DRAWN C.W.E.
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G.J.R. & J.E.A. RE 13031
SUBMITTED O.L.W. RE 8557
DRAWING NUMBER 52-4-102.20

PROFILE
SURVEYED
PLOTTED
DRAWN CHECKED
QUANTITIES CHECKED
B. M. & NOTES
STRUCTURE LOCATIONS CHECKED
NOTE BOOK
NO.
BY
DATE

PLAN
SURVEYED
PLOTTED
DRAWN CHECKED
QUANTITIES CHECKED
BY OF MAP CHECKED
NOTE BOOK
NO.
BY
DATE

PLATE I. PLAN. PROFILE. P. & S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H = 300 FT. (130 PSI)
CLASS D BACKFILL
CLASS B BACKFILL
20" H = 320 FT. (139 PSI)
CLASS D BACKFILL
CLASS A BACKFILL
20" H = 340 FT. (147 PSI)
CLASS D BACKFILL
CLASS A BACKFILL
CLASS D BACKFILL
20" H = 360 FT (156 PSI)

INSTALL 2" AIR VALVE TYPE D
INSTALL AT POINT - 2" CURVE 1
1½" AIR VALVE TYPE B
1" P. PIPE
EXISTING GROUND LINE
LEVEL
LEVEL
INSTALL 8" T.O. LEFT
TYPE B SEE DRAWING DS 11 B
INSTALL AT HIGH POINT
2" AIR VALVE TYPE A

341+50.00 ℄ VER. INV. 289.0
DN 28° 34" 30.0
341+62 VER. INV. 283.0
UP 26° 34"
341+82 VER. INV. 283.0
UP 26° 34"
341+92.00 ℄ VER. INV. 288.0
DN 26° 34"

330+00 335+00 340+00 345+00 350+00 355+00 360+00

620 340 330 320 310 300 290 280 270

NORMAN CURRERI
BOOK 941 O.R. PAGE 272 S.C.R.

LEONARD J. MEUMANN
BOOK 718 O.R. PAGE 323 S.C.R.

EMILI A. AYRES
BOOK 648 O.R. PAGE 113 S.C.R.

1" PIPE
25' PERMANENT EASEMENT
30' CONSTRUCTION EASEMENT
POWER POLE
2"
335
340
345
350
355
STUART CREEK
1/2" B
PT&T CABLE
PT&T CABLE
7.5
17.5
ROAD
MATCH LINE 330+00

11-29-02
STA. 347+83
P.G.&E. INSTALLED 8" STEEL GAS MAIN 12"
ABOVE 20" AP.
26" AP 62" DEEP
ALSO ABOVE
TEST STA
DITCH
DIKE
DITCH

ARNOLD DRIVE
EP
EP
DITCH
347+76
ET5
6" B
10-2-02
5-SOUTH 1 AMPERE
ALLAN & SARAH GORDENKER
RODION & JANE GORDENKER
BOOK 1345 O.R. PAGE 466 S.C.R.

JESSE E. & AMELIA J. NICHOLS
BOOK 1559 O.R. PAGE 551 S.C.R.
BOOK 1590 O.R. PAGE 445 S.C.R.

TURN OUT TO: GLEN ELLEN METER & BYPASS METER
EP
DITCH
GLEN ELLEN METER STATION
25' PERMANENT EASEMENT
30' CONST. EASEMENT
PT&T CABLE
P.J. HARSHMAN METER
PAVED ROAD
30' CONST. EASEMENT
25' PERMANENT EASEMENT
MATCH LINE 360+00

341+00.00 ℄ HOR.
DEF. RT. 0° 51' 30"
347+23.23 ℄ HOR.
DEF. LT. 7° 03' 23"
348+09.81 ℄ HOR.
DEF. RT. 21° 19' 40"
347+73.88 ℄ HOR.
DEF. LT. 14° 45' 53"

TBM 15 NAIL IN POWER POLE
30' LEFT OF STA 348+00
ELEV 293.91

NOTE: TREES LARGER THAN 6" DIAMETER TO BE LEFT IN PLACE

R.P. NAIL IN 6" OAK
49.30
50.47
R.P. NAIL IN 24" OAK
341+00.00 ℄ HOR.

R.P. NAIL IN POWER POLE
70.73
16.84
R.P. NAIL IN TEL. MARKER POST
347+23.23 ℄ HOR.

R.P. NAIL IN ℄ OF ROAD
38.26
53.05
R.P. NAIL IN FENCE POST
348+09.81 ℄ HOR.

R.P. NAIL IN 14" MADRONE
R.P. NAIL IN 14" OAK
29.35
41.18
357+73.88 ℄ HOR.

200 150 100 50 0 100
SCALE IN FEET

No.	DATE	REVISION	By

SONOMA AQUEDUCT
330+00 TO 360+00

SCALE: 1" = 100'
DATE: FEB. 9 1962
APPROVED Jordan W. Mitchell CHIEF ENGINEER RE 8271
DRAWN C.W.E.
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

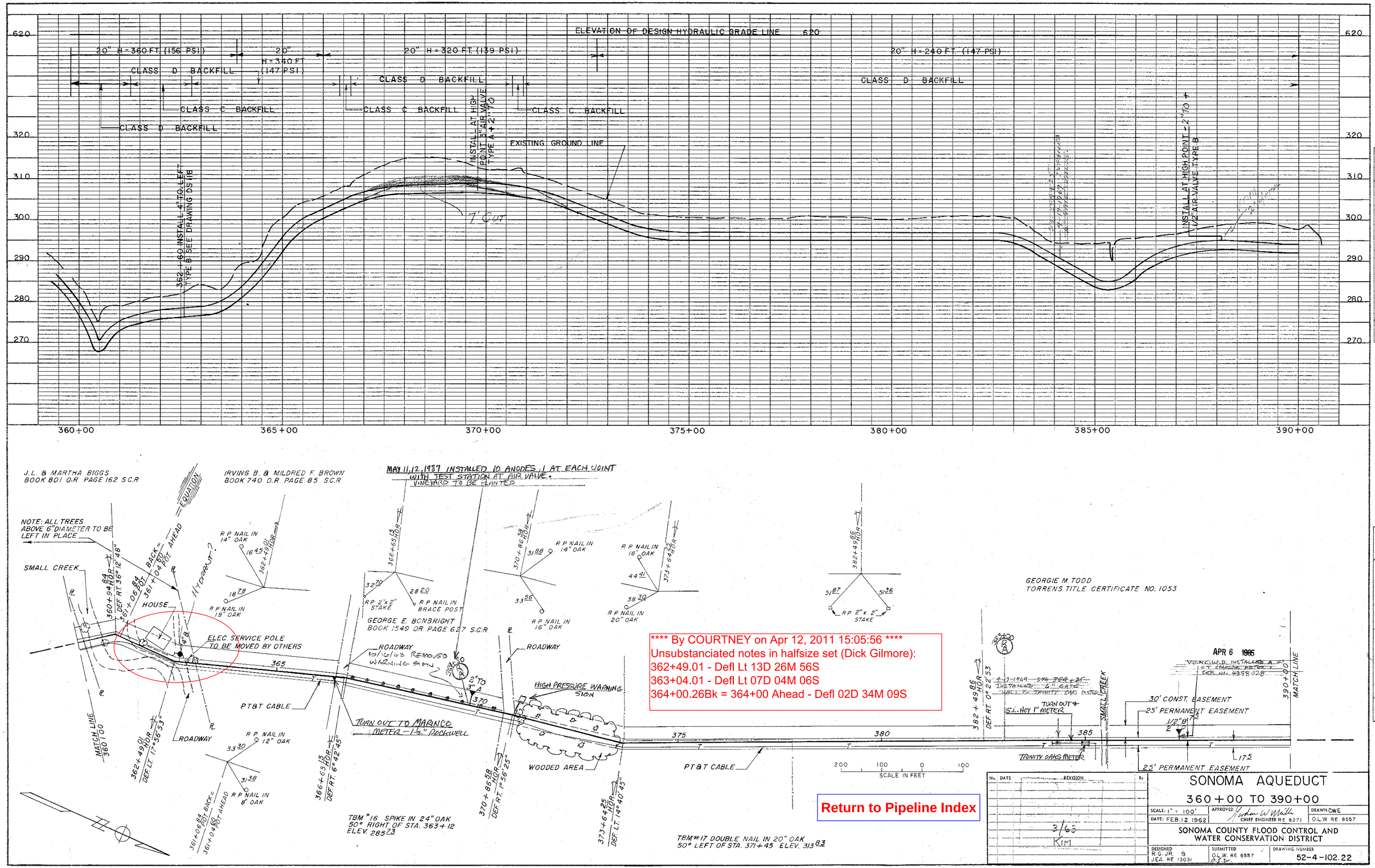
DESIGNED R.G. JR & J.E.A. RE 13031
SUBMITTED O.L.W. RE 8557
DRAWING NUMBER 52-4-102.21

3/63
K.M.

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
COMPUTED
CHECKED
BY M. & M. PLOTTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
COMPUTED
CHECKED
BY M. & M. PLOTTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

Return to Pipeline Index



**** By COURTNEY on Apr 12, 2011 15:05:56 ****
Unsubstanciated notes in halfsize set (Dick Gilmore):
362+49.01 - Defl Lt 13D 26M 56S
363+04.01 - Defl Lt 07D 04M 06S
364+00.26Bk = 364+00 Ahead - Defl 02D 34M 09S

Return to Pipeline Index

No.	DATE	REVISION	By
		3/63 KIM	

SONOMA AQUEDUCT

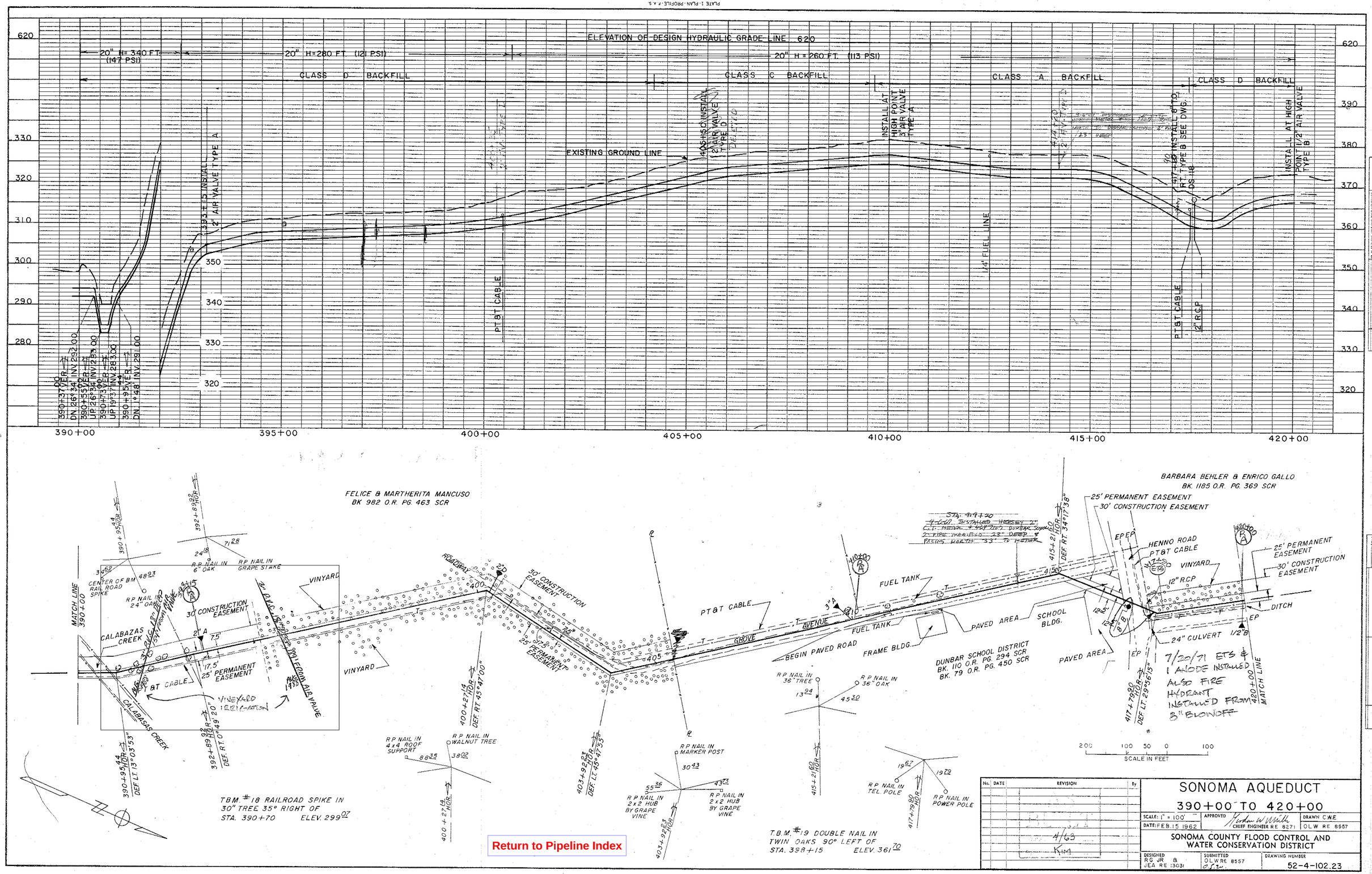
360+00 TO 390+00

SCALE: 1" = 100'
DATE: FEB. 12 1962
APPROVED: CHIEF ENGINEER RE 8271
DRAWN: C.W.E. O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R.G. JR. & J.E.A. RE 13031
SUBMITTED: O.L.W. RE 8557
DRAWING NUMBER: 52-4-102.22

PROFILE — NOTE BOOK NO. — SURVEYED, PLOTTED, GRADES CHECKED, B. M. & NOTED, STRUCTURE NOTATIONS CHK'D
PLAN — NOTE BOOK NO. — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED



Return to Pipeline Index

No.	DATE	REVISION	By
		4/63	

SONOMA AQUEDUCT

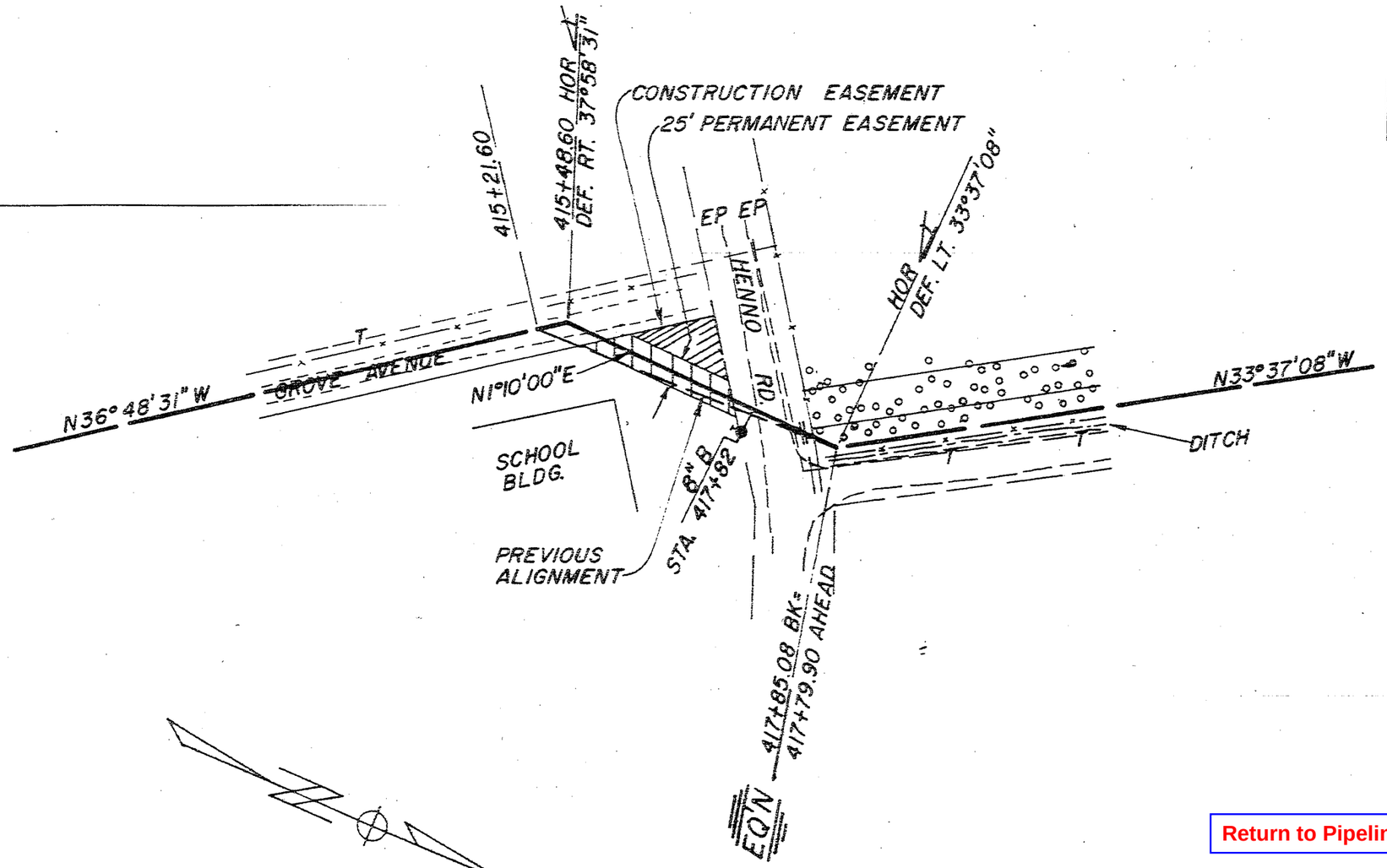
390+00 TO 420+00

SCALE: 1" = 100'
DATE: FEB. 15 1962
APPROVED: Gordon W. Wilde, CHIEF ENGINEER RE 8271
DRAWN C.W.E.
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR & JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.23

THIS DRAWING REDUCED APPROXIMATELY HALF SIZE



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT

STA. 415+21.60 TO EQ. STA. 417+85.08 BK.–417+79.90 AHD.
LINE CHANGE VICINITY DUNBAR SCHOOL

SCALE: 1" = 100'	APPROVED Gordon W Miller CHIEF ENGINEER RE 8271	DRAWN SKMc
DATE: JUNE 19, 1962		

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	CHECKED	DRAWING NUMBER
JEA RE 13031	RE 8557	52-4-102.23A

PRINTED ON DIEPO NO. 1000M CLEARPRINT

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO., S.F. CAL.
NO. 1000H-1

620 / 420 / 410 / 400 / 390 / 380 / 370 / 360

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H = 260 FT (113 PSI) — CLASS D BACKFILL — CLASS C BACKFILL

20" H = 240 FT. (104 PSI) — CLASS D BACKFILL — CLASS C BACKFILL

20" H = 230 FT. (100 PSI) — CLASS C BACKFILL

FOR BACKFILL REQUIREMENTS SEE DETAILS THIS SHEET

EXISTING GROUND

Elev 425.94
8-14-73
Natural Ground Surface
Check for 24" Depth

4" PLASTIC PIPE LINE

2" TAP TO 1" METER 424+67 (MARC BANNER) SUMMER 1973 - PER IN FIELD

TELEPHONE CABLE

15' x 15' CONCRETE CULVERT

420+00 / 425+00 / 430+00 / 435+00 / 440+00 / 445+00 / 450+00

NOTE — THE CONTRACTOR SHALL OBTAIN AN OPERATIONAL PERMIT FROM THE CALIF. DIVISION OF HIGHWAYS PRIOR TO COMMENCING WORK WITHIN HIGHWAY 12 RIGHT OF WAY.

LIMIT OF NEW CONSTRUCTION — EXISTING HIGHWAY NOT TO BE DISTURBED

STATE HWY 12 R/W LINE — VARIES 8' TO 10' — 20" O.D. PIPE — 5' — 6" STATE HWY 12

REPLACE - USING MATERIAL EXCAVATED FROM THE TOP FOOT, ~~COMPACT TO 95% OF MAXIMUM DENSITY AS DETERMINED BY CAL. TEST METHOD NO. 216~~

6" BITUMINIZED MACADAM
2" WEARING SURFACE
4" BASE COURSE

MATERIAL ~~TO BE~~ REMOVED BY BULL DOZER PRIOR TO TRENCHING

22'±

EXCAVATED MATERIAL ~~COMPACTED OR~~ CONSOLIDATED ~~TO 95% OF MAXIMUM DENSITY AS DETERMINED BY CAL. TEST PROCEDURE (H20) MODIFIED TO USE 10 BLOWS OF THE 5.5 lb. HAMMER~~

RESHAPE DITCH TO SECTION EXISTING BEFORE EXCAVATION

CONSOLIDATED ~~SAND~~ BEDDING

3' — 3' — 6' — 3'

NOTE — DISTRICT SPECIFICATIONS REQUIRE FLAGMEN TO BE ON DUTY DURING CONSTRUCTION HOURS, AND LIGHTED BARRICADES TO BE MAINTAINED AT ALL TIMES PRIOR TO COMPLETION OF THE CONSTRUCTION WORK. HIGHWAY MAY BE CLOSED TO ONE LANE CONTROLLED TRAFFIC BETWEEN 8A.M AND 5P.M., MONDAY THROUGH FRIDAY.

LOUIS C PAGANI ET. AL
BOOK 691 O.R. PAGE 327 S.C.R.
BOOK 1677 O.R. PAGE 353 S.C.R.

FARM ROAD

TYPICAL SECTION

PROPOSED PIPELINE CONSTRUCTION IN STATE HIGHWAY IV-SON-51 FROM STA. 390+00 TO 627+46.13, SECTION A, AND FROM 0+00 TO 2+50, SECTION B

SCALE 1" = 5'

BARBARA B. & ENRICO GALLO
BOOK 1185 O.R. PAGE 369 S.C.R.

JOHN J. & VIVIAN HICKS
BOOK 818 O.R. PAGE 396 S.C.R.

AGNES, MARIAN & EDITH WALKER
BOOK 265 O.R. PAGE 260 S.C.R.

30' CONSTRUCTION EASEMENT
25' PERMANENT EASEMENT

STA. 425+94
8-14-73
½" GAS PIPE PVC
24" DEEP
PER ☎

TO REMAIN IN PLACE

¾" 3" THICK 42" DIA. FUEL TANK

VINEYARD — SMALL CREEK — POWER POLE — DRIVE — DUNBAR — SCHOOL — ROAD — EP — R/W — DITCH — PT&T CABLE — CULVERT

4" PLASTIC PIPE OVER
AUG. 1969
11600 DUNBAR RD.
"NEW" VINEYARD.

7/75 ROAD DEPT INSTALLED NEW ARCH CMP CULVERT 4'x6'

FENCE AND ROSE HEDGE TO REMAIN IN PLACE

MATCH LINE 420+00

424+00 00 HOR ∠ DEF RT 0°36'08"

428+07 71 HOR ∠ DEF LT 4°28'30"

430+37 55 HOR ∠ DEF RT 23°33'15"

430+87 60 HOR ∠ DEF LT 24°24'33"

436+41 69 HOR ∠ PT&T

444+78 44 HOR ∠ DEF LT 5°44'10"

450+00 MATCH LINE

Line Change Order
See Dwg 52-4-102.24 A
102.24 C

Line Change - 1' East
Grade - 1' Up

RP NAIL IN POWER POLE. 20.80 — RP NAIL IN TELEPHONE POLE 80.11

USC&GS BM L-205 70 Q
RIGHT OF STA 423+00
ELEV 377.39

RP NAIL IN EDGE OF PAVEMENT 59.03 — RP NAIL IN FENCE POST 63.14

RP NAIL IN PRUNE TREE 60.30 — RP NAIL IN TELEPHONE POLE 84.15

RP NAIL IN PRUNE TREE 36.99 — 55.27

RP NAIL IN PRUNE TREE 33.44 — 38.11 — 59'

RP NAIL IN GRAPE VINE 28.90 — 101.67 — RP 6"x6" CONCRETE HIGHWAY MONUMENT

100 50 0 100 200
SCALE IN FEET

Return to Pipeline Index

No.	DATE	REVISION	By
		4/03 Kim	

SONOMA AQUEDUCT
420+00 TO 450+00

SCALE: 1" = 100' | APPROVED Herbert W. Whittle, CHIEF ENGINEER R.E. 8271 | DRAWN BAUER
DATE: FEB 16, 1962 | O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. J.E.A. RE 13031 | SUBMITTED O.L.W. R.E. 8557 | DRAWING NUMBER 52-4-102.24

PROFILE
NOTE BOOK NO. ____
QUANTITIES PLOTTED
GRADES CHECKED
R/W & UTILITIES
STRUCTURE NOTATIONS CHK'D
BY ____ DATE ____

PLAN
NOTE BOOK NO. ____
SURVEYED
ALIGNMENT CHECKED
R/T OF WAY CHECKED
BY ____ DATE ____

PLATE 1-PLAN-PROFILE F & S
CLEARANCE PAPER CO. INC. CAL
NO. 1000M-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE - 620

20" H = 260 FT (113 PSI)

20" H = 240 FT. (104 PSI)

20" H = 230 FT. (100 PSI)

CLASS D BACKFILL

CLASS C BACKFILL

CLASS D BACKFILL

CLASS C BACKFILL

CLASS A BACKFILL

CLASS C BACKFILL

FOR BACKFILL REQUIREMENTS SEE DETAILS THIS SHEET

LAY PIPE TO MINIMUM COVER OF 3'-0" AND AS NECESSARY TO CLEAR P.T. & T. CABLE.

EXISTING GROUND

12' x 5' CONCRETE CULVERT

620 / 420 / 410 / 400 / 390 / 380 / 370 / 360

420+00 425+00 430+00 435+00 440+00 445+00 450+00

PROFILE

SURVEYED
PLOTTED
DRAWN
CHECKED
B.M. & NOTED
SPECIFICATIONS CHKD

NOTE BOOK NO.

BY

DATE

PLAN

SURVEYED
ALIGNMENT CHECKED
RT OF WAY CHECKED

NOTE BOOK NO.

BY

DATE

NOTE— THE CONTRACTOR SHALL OBTAIN AN OPERATIONAL PERMIT FROM THE CALIF. DIVISION OF HIGHWAYS PRIOR TO COMMENCING WORK WITHIN HIGHWAY 12 RIGHT OF WAY.

LIMIT OF NEW CONSTRUCTION — EXISTING HIGHWAY NOT TO BE DISTURBED

STATE HWY 12 R/W LINE — VARIES 8' TO 10' — 20" I.D. PIPE — STATE HWY 12

REPLACE-USING MATERIAL EXCAVATED FROM THE TOP FOOT, COMPACT IN 6" LAYERS TO 95% OF MAXIMUM DENSITY AS DETERMINED BY DIV. OF HIGHWAYS, TEST METHOD NO. 216

MATERIAL MAY BE REMOVED BY BULLDOZER PRIOR TO TRENCHING

6" BITUMINIZED MACADAM
2" WEARING SURFACE
4" BASE COURSE

RESHAPE DITCH TO SECTION EXISTING BEFORE EXCAVATION

EXCAVATED MATERIAL COMPACTED OR CONSOLIDATED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM TEST PROCEDURE D698, MODIFIED TO USE 40 BLOWS OF THE 5.5 lb. HAMMER

CONSOLIDATED SAND BEDDING

NOTE-DISTRICT SPECIFICATIONS REQUIRE FLAGMEN TO BE ON DUTY DURING CONSTRUCTION HOURS, AND LIGHTED BARRICADES TO BE MAINTAINED AT ALL TIMES PRIOR TO COMPLETION OF THE CONSTRUCTION WORK. HIGHWAY MAY BE CLOSED TO ONE LANE CONTROLLED TRAFFIC BETWEEN 8A.M. AND 5P.M., MONDAY THROUGH FRIDAY.

LOUIS C PAGANI ET. AL
BOOK 691 O.R. PAGE 327 S.C.R.
BOOK 1677 O.R. PAGE 353 S.C.R.

FARM ROAD

STA. 999+79 KUDE 2" METER
MFR. HERSEY 2" T SER. #97266175
ALSO DIST. WARNING SIGN

VINEYARD — POWER POLE — DITCH — P T & T CABLE — R/W — EP

TYPICAL SECTION

PROPOSED PIPELINE CONSTRUCTION IN STATE HIGHWAY IN-SON-61 FROM STA. 590+00 TO 627+46.13, SECTION A, AND FROM 0+00 TO 2+50, SECTION B

SCALE 1" = 5'

BARBARA B. & ENRICO GALLO
BOOK 1185 O.R. PAGE 369 S.C.R.

JOHN J. & VIVIAN HICKS
BOOK 818 O.R. PAGE 396 S.C.R.

AGNES, MARIAN & EDITH WALKER.
BOOK 265 O.R. PAGE 260 S.C.R.

30' CONSTRUCTION EASEMENT
25' PERMANENT EASEMENT

TO REMAIN IN PLACE

ORIGINAL ALIGNMENT

SMALL TREES — VINEYARD — POWER POLE — DRIVE — FUEL TANK — DITCH — P T & T CABLE — R/W — EP — STATE HIGHWAY NO. 12 — CULVERT — DUNBAR SCHOOL ROAD — CONCRETE CULVERT

FENCE AND ROSE HEDGE TO REMAIN IN PLACE

END OF LINE CHANGE: STA. 431+70±

PULL JOINTS MAX 2°10' EACH AS NECESSARY TO GET BACK ON LINE

MATCH LINE 420+00

427+40.00 HOR ∠ 1 DEF. RT 25°00'

428+00.00 HOR ∠ 2 DEF. LT 28°50'

LIMITS OF PROPOSED REALIGNMENT

436+47.69 HOR ∠ POT

444+78.44 HOR ∠ 4 DEF. LT 5°44'00"

450+00 MATCH LINE

NOTE: THE CONTRACTOR MAY BE ABLE TO NEGOTIATE WITH THE ADJACENT PROPERTY OWNERS FOR A CONSTRUCTION AREA CONTIGUOUS TO THE HIGHWAY RIGHT OF WAY BETWEEN STA. 430+68 & STA. 468+54.

RP NAIL IN POWER POLE — 20.80 — 80.11 — RP NAIL IN TELEPHONE POLE — 424+00.00 HOR ∠

USC&GS BM L-205 70Q
RIGHT OF STA 423+00
ELEV 377.39

RP NAIL IN EDGE OF PAVEMENT — 59.03 — 63.14 — RP NAIL IN FENCE POST — 428+07.71 HOR ∠

RP NAIL IN PRUNE TREE — 60.30 — 64.15 — RP NAIL IN TELEPHONE POLE — 430+37.25 HOR ∠

RP NAIL IN PRUNE TREE — 36.93 — 55.27 — 430+87.69 HOR ∠

RP NAIL IN PRUNE TREE — 33.44 — 38.11 — 50' — 436+47.69 HOR ∠

RP NAIL IN GRAPE VINE — 28.30 — 101.67 — RP 6"x6" CONCRETE HIGHWAY MONUMENT — 444+78.44 HOR ∠

100 50 0 100 200
SCALE IN FEET

No.	DATE	REVISION	By
		FOR LINE CHANGE ONLY 4/63 KIM	

SONOMA AQUEDUCT
420+00 TO 450+00

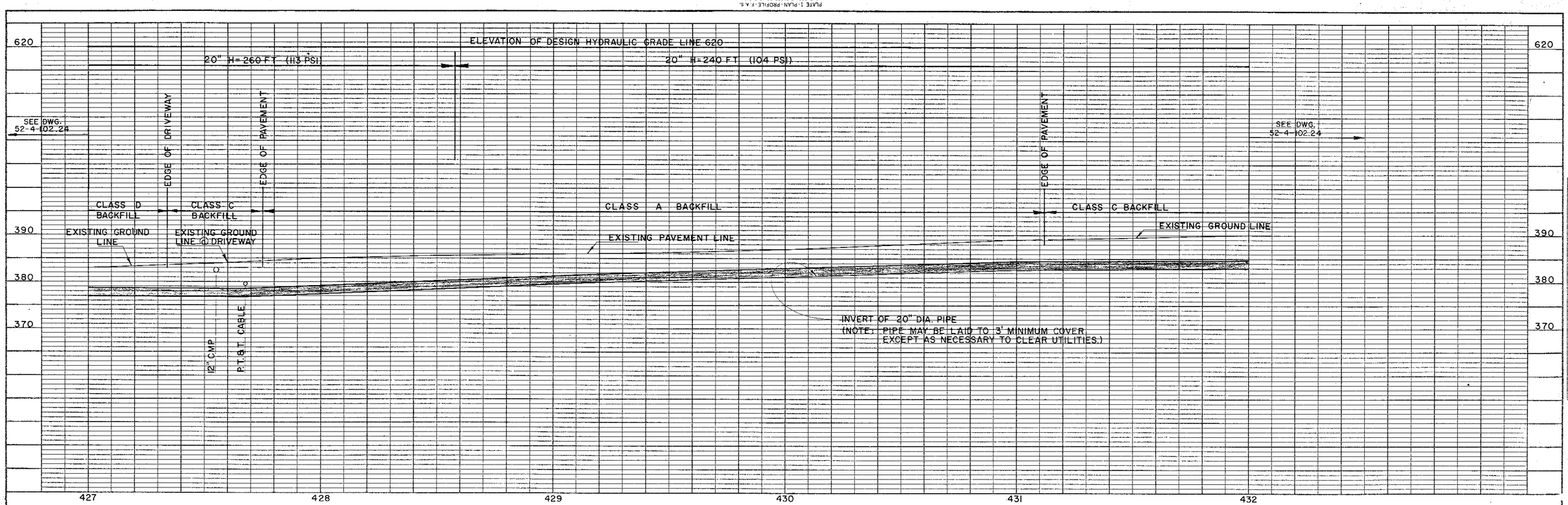
SCALE: 1" = 100'
DATE: FEB 16, 1962
APPROVED — CHIEF ENGINEER R.E. 8271
DRAWN BAUER
O.L.W. R.E. 8557

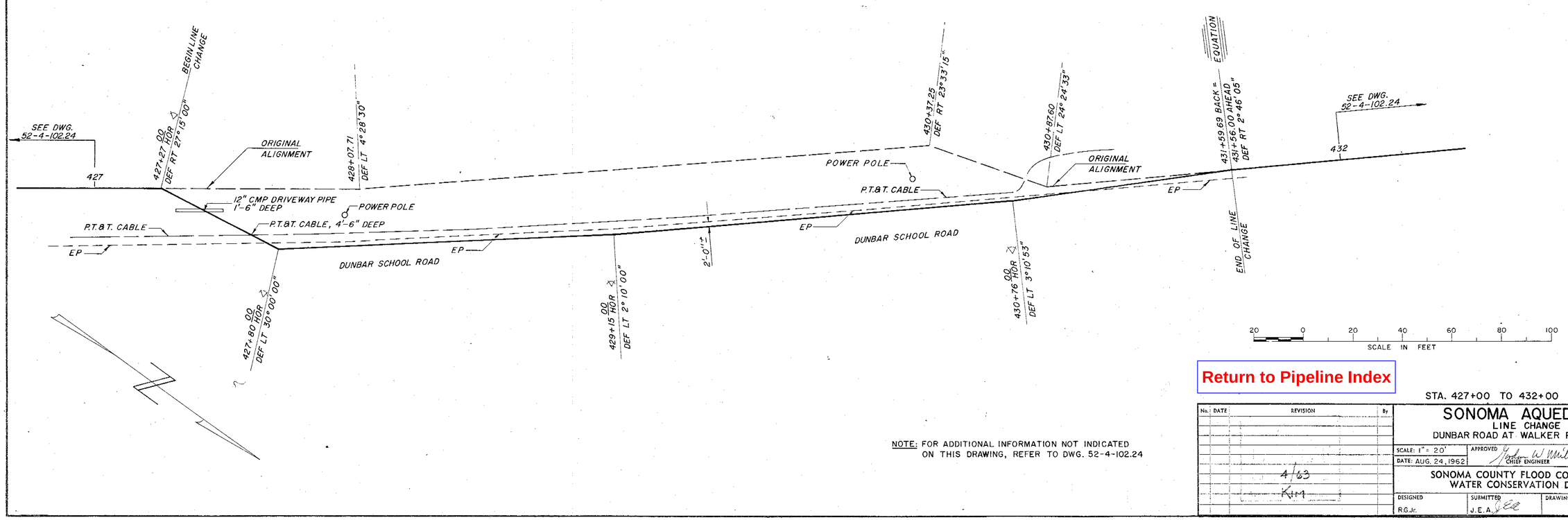
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR.
J.E.A. R.E. 13031
SUBMITTED O.L.W. R.E. 8557
DRAWING NUMBER 52-4-102.24A

Return to Pipeline Index

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARWHITE PAPER CO., S. F. CAL.
NO. 1000H-1





NOTE: FOR ADDITIONAL INFORMATION NOT INDICATED ON THIS DRAWING, REFER TO DWG. 52-4-102.24

Return to Pipeline Index

STA. 427+00 TO 432+00

No.	DATE	REVISION	By
		4/63	
		Kim	

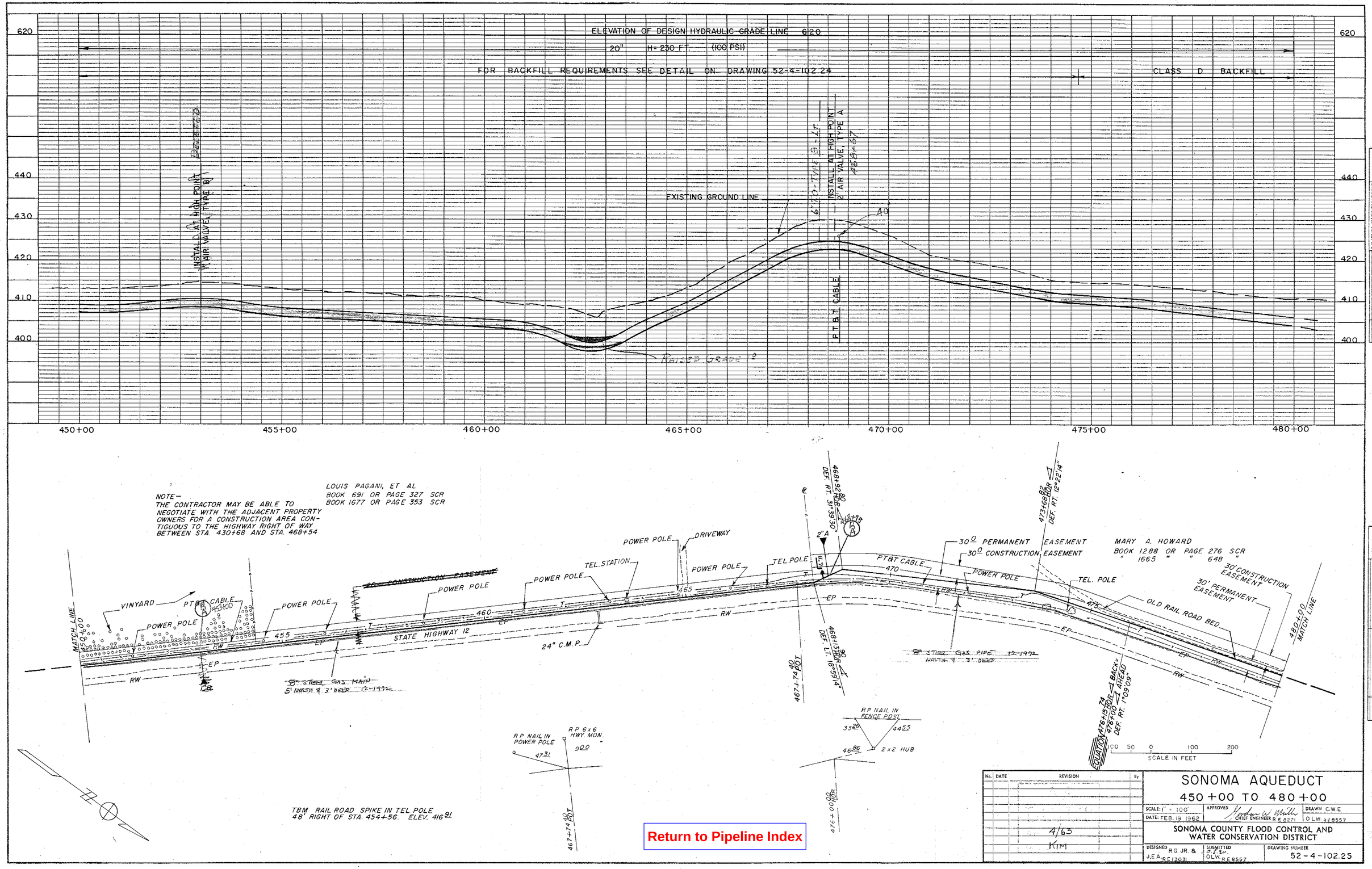
SONOMA AQUEDUCT
LINE CHANGE
DUNBAR ROAD AT WALKER PROPERTY

SCALE: 1" = 20'	APPROVED Hudson W. Miller CHIEF ENGINEER	DRAWN PRESTON
DATE: AUG. 24, 1962		

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	SUBMITTED	DRAWING NUMBER
R.G.Jr.	J.E.A.	52-4-102.24 C

NOTE BOOK NO. ____ PAGE ____
GRADES CHECKED ____
LINE & TIES PLOTTED ____
STAKE CLEARED ____ AT STA. CLR'D ____
SURVEYED ____
PLOTTED ____
ALIGNMENT CHECKED ____
RT. OF WAY CHECKED ____
P. LEAK



Return to Pipeline Index

No.	DATE	REVISION	By
		4/63 KIM	

SONOMA AQUEDUCT

450+00 TO 480+00

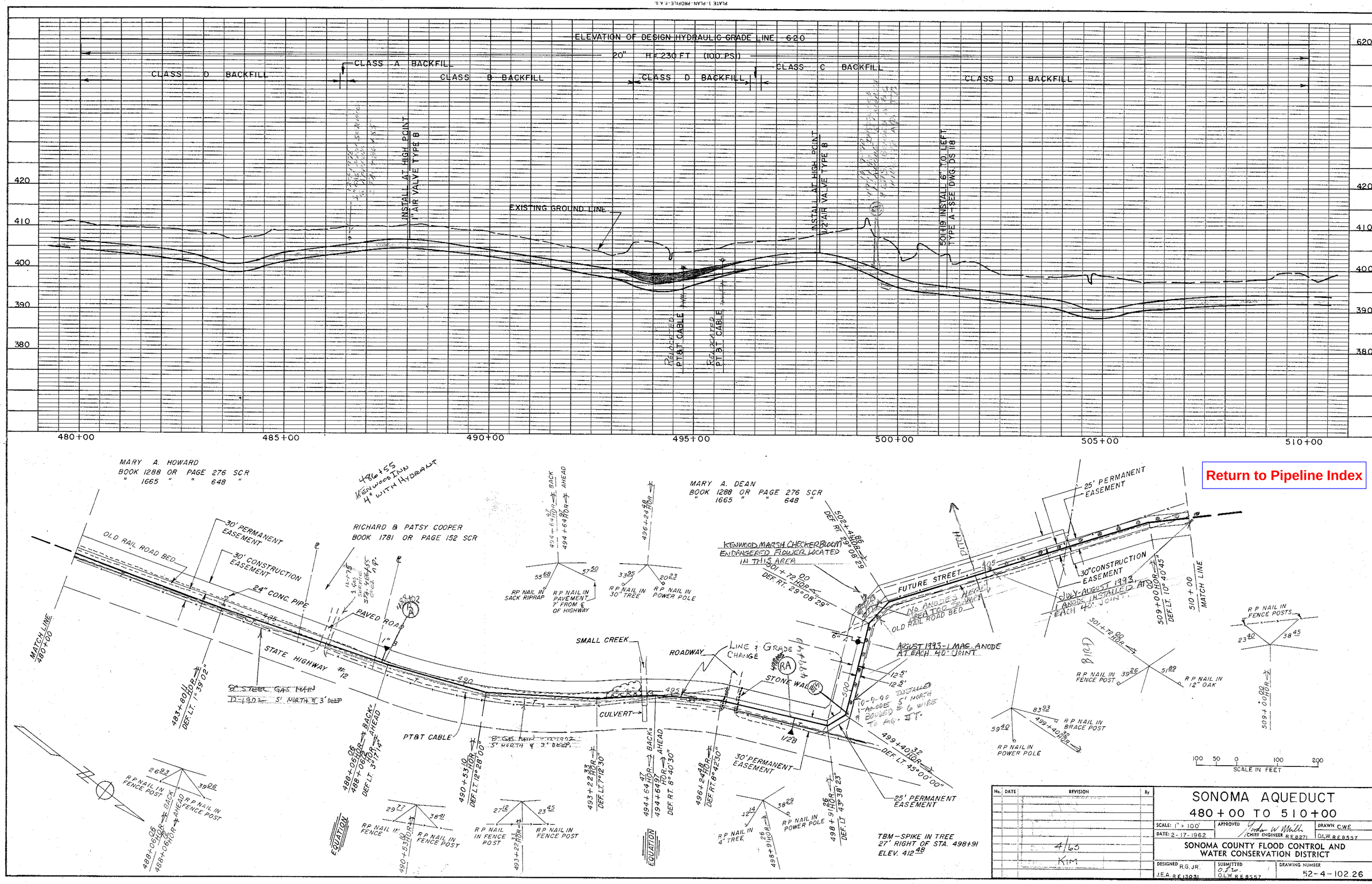
SCALE: 1" = 100'
DATE: FEB. 19 1962
APPROVED Gordon W. Mills CHIEF ENGINEER R.E. 8271
DRAWN C.W.E. O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. & J.E.A. R.E. 13031
SUBMITTED O.L.W. R.E. 8557
DRAWING NUMBER 52-4-102.25

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. & NOTED
STRUCTURE NOTATIONS CHK'D
BY
DATE

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



Return to Pipeline Index

No.	DATE	REVISION	By
		4/65 KIM	

SONOMA AQUEDUCT
480+00 TO 510+00

SCALE: 1" = 100'
DATE: 2-17-1962
APPROVED: Jordan W. Mills, CHIEF ENGINEER R.E. 8271
DRAWN: C.W.E. O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R.G. JR. J.E.A. R.E. 13031
SUBMITTED: O.L.W. R.E. 8557
DRAWING NUMBER: 52-4-102.26

PLATE 1. PLAN-PROFILE. F. & S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H= 230 FT. (100 PSI)

CLASS D BACKFILL

EXISTING GROUND LINE

INSTALL AIR HIGH POINT 1" AIR VALVE, TYPE B

620 420 410 400 390 380

510+00 511+00 512+00 513+00 514+00 515+00 516+00 517+00 518+00 519+00 520+00 521+00 522+00

POWER POLE

GUY

1"B

511 512 513 514 515 516 517 518 519 520 521

12 ½ 12 ½

25' PERMANENT EASEMENT

30' CONST. EASEMENT

30' CONST. EASEMENT

25' PERMANENT EASEMENT

JULY 1993, ANODES INSTALLED AT EACH 40' JOINT

SEPT. 1992 - INSTALLED 10 MAGNESIUM ANODES. SKIPPED THE JOINT NEXT TO THE 1" RISER

AUGUST-SEPTEMBER 1993 - 1 ANODE INSTALLED EACH 40' JOINT

FREDERICA AVENUE

WATER ALONG PEA GRAVEL AROUND PIPE FROM S. TURN OUT AT APPROX STA. # 501+00 TO WARM SPRINGS ROAD.

MATCH LINE 510+00

MARY A. DEAN
BOOK 1288 O.R. PAGE 276 S.C.R.
BOOK 1665 O.R. PAGE 648 S.C.R.

MARY A HOWARD
BOOK 1288 O.R. PAGE 276 S.C.R.
BOOK 1665 O.R. PAGE 648 S.C.R.

THE DEVISEES OF CATHERINE PEDRONCELLI

VIRGINIA

SONOMA

OAK STREET

LIBBY

MATCH LINE 522+00

STA. 518+20 (10-2-92) 1-ANODE & 5' SOUTH

518+25 (RA)

RP NAIL IN FENCE POST

36.19 24.60

518+30.05 (RA)

80 60 40 20 0 40
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
GRAPHS CHECKED
PLAN-PROFILE CHECKED
STRUCTURE NOTATIONS CHK'D
NOTE BOOK
NO.
BY
DATE

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

Return to Pipeline Index

No.	DATE	REVISION	By

4/63
KM

SONOMA AQUEDUCT
510+00 TO 522+00

SCALE: 1" = 40'
DATE: FEB 16, 1962
APPROVED Jordan W Miller CHIEF ENGINEER RE 8271
DRAWN BAUER
O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR & J.E.A. RE 13031
SUBMITTED O.L.W. RE 8557
DRAWING NUMBER 52-4-102 27

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NOTATIONS CK'D

NOTE BOOK NO. _____

BY DATE

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H=230 FT. (100 PSI)

CLASS D BACKFILL
CLASS B BACKFILL
CLASS D BACKFILL
CLASS B BACKFILL
CLASS D BACKFILL
CLASS B BACKFILL
CLASS D BACKFILL
CLASS A BACKFILL
CLASS C BACKFILL
CLASS A BACKFILL
CLASS C BACKFILL

EXISTING GROUND LINE

STA 529+35 INSTALL 8" TEE TYPE B — SEE DWG. DS 118

2-18" CMP

Raised Grade 1'

620
410
400
390
380
370

522+00 523+00 524+00 525+00 526+00 527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00

PLAN

SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED

NOTE BOOK NO. _____

BY DATE

LARRY M. & STEPHANIE B. LLOYD
BOOK 1762 OR PAGE 55 SCR

SMALL RACE TRACK

30' CONST. EASEMENT

30' PERMANENT EASEMENT

PEN

FREDERICA AVE

1 ANODE INSTALLED AT EACH 40' JOINT - SEPT. 1943.

SMALL CREEK

GRISWOLD AVENUE

MATCH LINE 522+00

525+91.89 HOR. ∠ DEF RT 1°18'45"

STA 529+30 BASE INSTALLED ON 7-23-1941 A 2" GAS MAIN 30" DEEP & 9" ABOVE THE 20" AQUEDUCT.

529+00 RA

ROHRER AVENUE

LUMAN SPRINGS ROAD

EP

KELLWOOD VILLAGE 3"x¾" METERS — TURN OUT

2-18" CMP

FREDERICA AVE

EP

8" BRANCH

11+27.7 FROM STA 529+35 KELLWOOD WATER WORKS FOR THE USE OF TRANSITE CASING TO 30" DEEP.

6-26-46 KELLWOOD INSTALLED HERSEY 3"CT METER 3"x¾" SER# 5677515 STA 529+35

DITCH

529+44.75 HOR. ∠ DEF LT 0°42'48"

15" LINE CHANGE

18" STORM DRAIN

COLLECTOR BOX

DITCH

24" CONC PIPE

24" CMP

JESSIE ST

534+00 MATCH LINE

80 60 40 20 0 40
SCALE IN FEET

51.56 RP NAIL IN FENCE POST 71.18

525+91.89 HOR. ∠

USC&GS BM "K 205" 200Ω LEFT OF STA 529+05 ELEV 398.25

RP NAIL IN TREE 52.37

41.20 RP NAIL IN TREE

529+44.75 HOR. ∠

Return to Pipeline Index

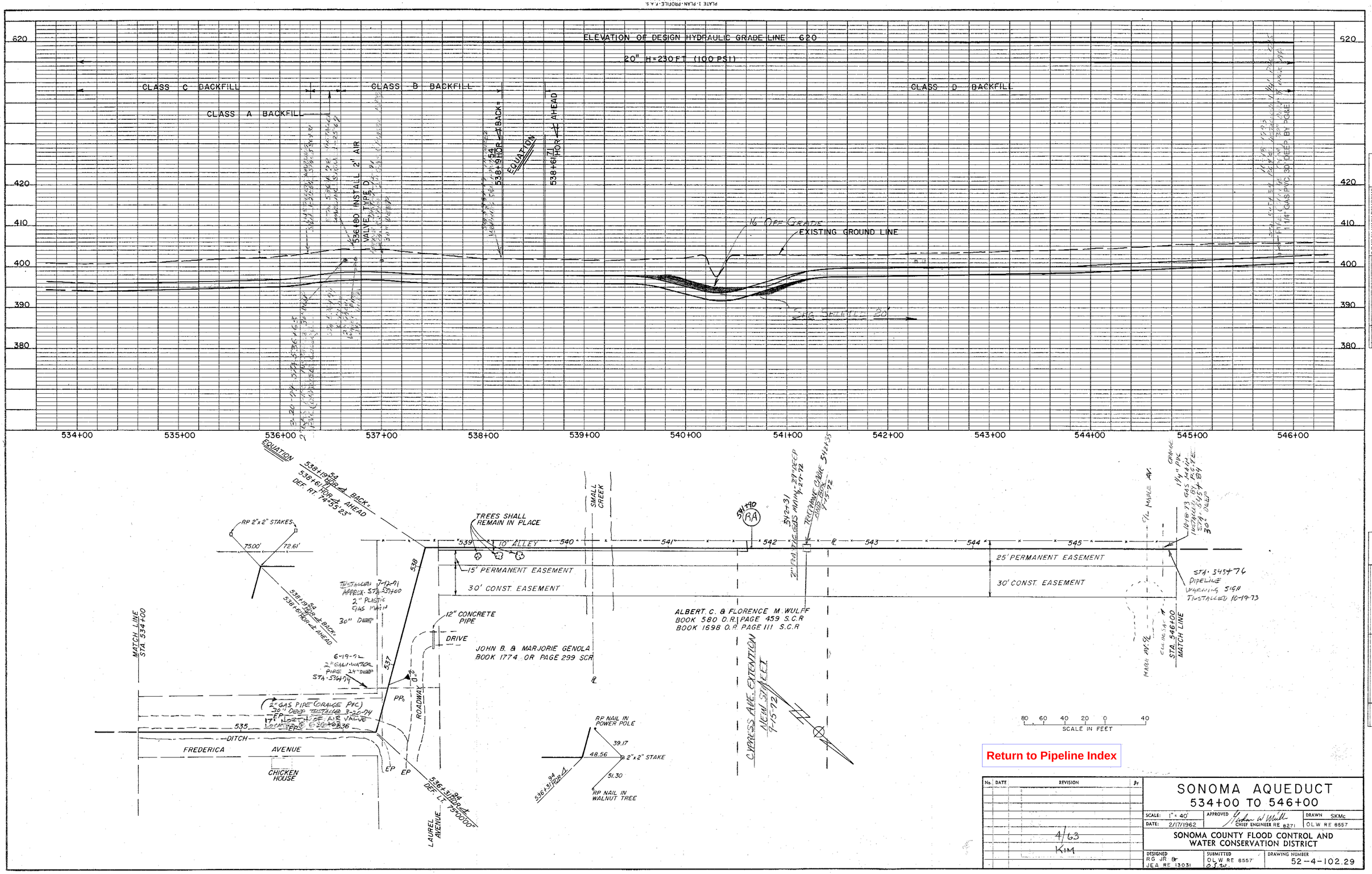
No.	DATE	REVISION	By
		4/63 KIM	

SONOMA AQUEDUCT
522+00 TO 534+00

SCALE: 1" = 40'
DATE: FEB 20, 1962
APPROVED Gordon W. Mailliard CHIEF ENGINEER RE 8271
DRAWN BAUER OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR 8 JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.28



Return to Pipeline Index

No.	DATE	REVISION	BY
		4/63 KIM	

SONOMA AQUEDUCT
534+00 TO 546+00

SCALE: 1" = 40'
DATE: 2/17/1962
APPROVED: Gordon W. Wulff, CHIEF ENGINEER RE 8271
DRAWN: SKMc
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: RG JR & JEA RE 13031
SUBMITTED: OLW RE 8557 O.S.W.
DRAWING NUMBER: 52-4-102.29

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. & NOTED
STRUCTURE NOTATNS CH'K'D
BY
DATE

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

PLATE 1 PLAN-PROFILE F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" M - 230 FT. (100 P.S.I.)

CLASS D BACKFILL

CLASS A BACKFILL

CLASS C BACKFILL

CLASS D BACKFILL

EXISTING GROUND LINE

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

552+13 2"HWY TYPE CO

552+78 INSTALL 6" TO RT TYPE B SEE DWG DS M8

18" CONC. PIPE

620 420 410 400 390

546+00 547+00 548+00 549+00 550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00 558+00

547+72.05 HOR. DEF RT 00° 52' 40"

MATCH LINE 546+00

ALBERT C. & FLORENCE M. WULFF
BOOK 580 O.R. PAGE 459 S.C.R.
BOOK 1698 O.R. PAGE 111 S.C.R.

H & T ℄ OLD R.R.

RP NAIL IN 2x2 STAKE

7369 4100

RP NAIL IN POWER POLE

547+72.05 HOR.

℄

LOS GUILICOS SCHOOL DISTRICT
BOOK 1783 O.R. PAGE 341 S.C.R.

1 ANODE AT ALMOST EVERY 40' JOINT FROM PROPERTY LINE TO RANDOLPH ST.

SCHOOL TRACT NO 1 ANODES

25' PERMANENT EASEMENT

30' CONSTRUCTION EASEMENT

552+12 RA 1 1/2"B

℄

T.B.M. CHISLED SQUARE ON N.E. COR. OF SIDEWALK 60° RIGHT OF STA 552+45 ELEV. 410.97

11-5-75 GEN. TELEPHONE CO. INSTALLED POLE 2' N WITH @ STA 552+63

552+63 HOR. DEF LT 7° 07' 15"

6" ℄

FACE OF CURB RANDOLPH STREET

EP

18" PIPE

24" PIPE

CATCH BASINS

STORM DRAIN

GUY

POWER POLE

ROADWAY

℄

554 555 556 557

25' PERMANENT EASEMENT

20' PERMANENT EASEMENT

POWER POLE

GUY

WILLIAM D. BROWN
BOOK 1207 O.R. PAGE 42 S.C.R.

ARNOLD & MARGARET LADWIG
BOOK 1620 O.R. PAGE 556 S.C.R.

30' CONSTRUCTION EASEMENT

TREES TO REMAIN IN PLACE

558+00 MATCH LINE

RP NAIL IN 16" OAK 4235 1498

1/2" IRON PIPE

RP NAIL IN CONC. CURB

42.23

552+63 HOR.

80 60 40 20 0 40
SCALE IN FEET

NOTE THE CONTRACTOR SHALL WORK WITHIN THE PERMANENT EASEMENT BETWEEN STA 557+00 TO 562+50 ALL PINE TREES SHALL REMAIN IN PLACE

Return to Pipeline Index

No.	DATE	REVISION	By

4/63
KJM

SONOMA AQUEDUCT
546+00 TO 558+00

SCALE: 1" = 40'
DATE: FEB. 20-1962
APPROVED Gordon W. Wells CHIEF ENGINEER RE 8271
DRAWN C.W.E.
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR & JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.30

PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
QUANTITIES CHECKED
R. W. & NOTED
STRUCTURE NOTATIONS CHKD

PLAN
NOTE BOOK NO. ____
SURVEYED
PLOTTED
QUANTITIES CHECKED
R. OF W. CHECKED

BY
DATE

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H=230' (100 P.S.I.)

620 430 420 410 400 390

CLASS D BACKFILL

CLASS C BACKFILL

CLASS D BACKFILL

EXISTING GROUND LINE

24" REINF. CONCRETE STORM DRAIN

564+60.00 INSTALL 20" GATE VALVE, TYPE A AND AIR VALVE, TYPE C

LEVEL

558+00 559+00 560+00 561+00 562+00 563+00 564+00 565+00 566+00 567+00 568+00 569+00 570+00

NOTE: CONTRACTOR SHALL WORK WITHIN PERMANENT EASEMENT BETWEEN STATION 557+00 TO 562+50 ALL PINE TREES SHALL REMAIN IN PLACE

JAMES D. & VIOLET M. RAMSEY BOOK 1593 O.R. PAGE 334 S.C.R.

5/5/71 ONE ANODE 9' DEEP & 3' S.W. BONDED TO A/N 4

MILDRED A. GREENE BOOK 1835 O.R. PAGE 3 S.C.R.

TEST LEADS IN VALVE PIT

WALNUT TREE TO REMAIN IN PLACE

20' PERMANENT EASEMENT

SHRUBS

PINE TREES

ROADWAY

GUY

POWER POLE

558+00.05 HOR. DEF. LT. 7° 38' 30"

20' PERMANENT EASEMENT

PINE TREES

SHED TO REMAIN IN PLACE

ARNOLD W. & MARGARET M. LADWIG BOOK 1620 O.R. PAGE 556 S.C.R.

559+41.35 HOR. DEF. LT. 20° 33' 23"

560+10.21 HOR. DEF. RT. 17° 41' 30"

GREENE STREET

562+50.23 HOR. DEF. LT. 13° 40' 30"

24" R.C.P.

563+36.67 HOR. DEF. RT. 13° 48' 23"

PG&E GAS

9-23-71 GAS SERVICE INSTALLED 26" DEEP

STA. 564+40 9-23-71 3/4" COPPER WATER SERVICE INSTALLED 20" DEEP 5 ABOVE

6-19-72 PG&E PEDESTAL 2" GAS SERVICE 3/4" UNDER

6-19-72 3/4" BLACK PLASTIC WATER SERVICE 18" DEEP

MARTHA C. GEIB BOOK 1593 O.R. PAGE 334 S.C.R.

4/19/71 - 7 ANODES 10' DEEP & 5' SOUTH

20' CONST. EASEMENT

WALNUT ORCHARD

40' PERMANENT EASEMENT

2" PLASTIC GAS MAIN

1 ANODE

PROPERTY OWNER DEFIES AGENCY REQUEST AND BUILDS HORSE SHED OVER AQUEDUCT IN T.I.R.G. BOB MADELSON FOUND GRASS UNABLE TO FIND SPECIFIC WORDING IN ORIGINAL RIGHT OF WAY AGREEMENT PROHIBITING STRUCTURES OVER AQ.

PT & T CABLE

568+93 TURN OUT TO: KENWOOD "B" METER 4" 568+93

ETS AT A/N 4/19/71

4/13/73 INSTALLED SCH 80 GALV STEEL RISER & 1 ANODE ON SOUTH SIDE AQ. AQ 48" DEEP.

570+00 MATCH LINE

80 60 40 20 0 40 SCALE IN FEET

MATCH LINE 558+00

R.P. NAIL IN POWER POLE 15 32

R.P. NAIL IN PINE TREE 44 24

558+00.05 HOR.

R.P. NAIL IN PINE TREES 25 60 24 01

559+41.35 HOR.

R.P. NAIL IN PINE TREES 48 69 12 77

560+10.21 HOR.

R.P. NAIL IN WALNUT TREES 38 19 44 59

563+36.67 HOR.

R.P. NAIL IN TEL. MARKER POST 39 34

R.P. NAIL IN PINE TREE 16 45

562+50.23 HOR.

Return to Pipeline Index

No.	DATE	REVISION	By
		4/63 KIM	

SONOMA AQUEDUCT
558 +00 TO 570 +00

SCALE: 1" = 40' | APPROVED Gordon Wilhelm CHIEF ENGINEER RE 8271 | DRAWN C.W.E

DATE: FEB-21-1963 | OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR' & J.E.A. RE 1303 | SUBMITTED OLW RE 8557 6-5-63 | DRAWING NUMBER .52-4-102.31

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE DIMENSIONS CHECKED
BY
DATE

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
PLOT MAP CHECKED
BY
DATE

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO., S. F., CAL.
NO. 1000H-1

620
440
430
420
410

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H=230 FT (100 PSI)

CLASS D BACKFILL

CLASS D BACKFILL

CLASS B BACKFILL

STA. 570+00 INSTALL 2" AIR VALVE TYPE D

572+92.90 INV. 420.12

FOR DETAILS SEE DWG. 52-4-102.53

573+83.70 INV. 420.12

INSTALL AT HIGH POINT 2" AIR VALVE TYPE B

STA. 580+20 INSTALL 20" GATE VALVE TYPE A & 1" AIR VALVE TYPE C

STA. 582+50 INSTALL 8" T.O. 5" SCH 40 TEE TYPE A SEE DWG. DS-18

RAISED GRADE

EXISTING GROUND LINE

INVERT @ 9'

INSTALL AT HIGH POINT 1" AIR VALVE TYPE B

24" CULVERT

9' CUT

573+91.17 INV. 420.12 VER ⊥ DN 15°24'

PT&T CABLE

570+00 575+00 580+00 585+00 590+00 595+00 600+00

PERMANENT EASEMENT NORTHERLY 40' OF FORMER SOUTHERN PACIFIC RAILROAD RIGHT OF WAY
CONSTRUCTION " SOUTHERLY 20' " " " " " " " " "

Return to Pipeline Index

MARY J. RODMAN
BOOK 1499 OR PAGE 9 SCR

ADELAIDE COHN
BOOK 642 OR
PAGE 198 SCR

MATCH LINE 570+00

572+92.90

FOR DETAILS SEE DWG. 52-4-102.53

573+83.70

4/12/1973 - INSTALLED SCH 80 RISER & 1 ANODE ON NORTH SIDE AQ. AT 577+45 - AQ. 72" DEEP

WALNUT ORCHARD

SONOMA CREEK

24" CULVERT

PT&T CABLE

571+42.51 HOR ⊥ DEF. LT. 0°30'08"

573+91.17 HOR ⊥ DEF. RT. 2°07'55"

3-20-1968 INSTALLED 33' 4" x 4" CURB LINK OUTLET STA. 573+02

TURN OUT TO: McLEOD 2" METER

1/2 BBL OLD RR BED

TO MAG. ANODE BED 5" SCH 40 TEED 5-12-75

SONOMA

576+15.63 HOR ⊥ DEF. LT. 1°40'08"

578+00.22 HOR ⊥ DEF. RT. 1°46'30"

580+52.60 HOR ⊥ DEF. LT. 2°25'00"

GUY POLE

24" CULVERT

PP

CREEK

1-26" 3 MAG ANODES. #1 - AQ. SR. #2 - 20" GATE VAL. #3 - SCH. 40 PP

STA. 582+50

ALSO TURN OUT TO: JOSEPH T. MARTIN 3" METER

FORMER SP RR

"BOSS" GOES IN" PLUGS OFF LEAK WITH BROOM HANDLE.

586+48.65 HOR ⊥ DEF. RT. 0°23'15"

590+34.90 HOR ⊥ DEF. RT. 4°21'30"

24" CULVERT

PP

578+10 RA

579+56.55

PT&T CABLE

1" B

PP 591+95

12" PIPE

OLD RR BED

595+

24 - MAG - ANODE BED 5' EAST & 5' DEEP 5-9-75

4/12/73 - INSTALLED 1 ANODE @ SCH 80 RISER @ 590+80 ON SOUTH SIDE AQ. AQ. 50" DEEP

DEF. RT. 4°49'08" 594+96.80 HOR ⊥

DEF. RT. 1°47'45" 598+12.80 HOR ⊥

MATCH LINE 600+00

LAWNDALE ROAD

DEF. LT. 41°20'15" 599+94.80 HOR ⊥

599+75 RA

SCALE IN FEET 200 150 100 50 0 100

579+58.2 - 3" METER STA.
CONNECTED MUTUAL WATER CO.
METER SET - 2" C.T. - 3" x 3/4" METER
SER.# 5815GT INSTALLED 12 LUGS OF 6/28/40

SEPTEMBER 1993 - NO GROUND WATER AT AQ.
1 ANODE, 1 BOND, 1 ANODE AT EACH 40' PIPE JOINT FROM HERE TO LAWNDALE RD. WE SKIPPED OLD ANODE BEDS AND ILL GATE VALVE AND SMALL CLEARANCES TO SPACE 5 RP NAIL IN TEL. MARKER

RP NAIL IN POWER POLE

RP NAIL IN CORNER FENCE POST

RP NAIL IN 4" OAK

RP NAIL IN 10" OAK

RP NAIL IN PRUNE TREE

RP NAIL IN 24" OAK

RP NAIL IN FENCE CORNER POST

RP NAIL IN TEL. MARKER

RP NAIL IN 6"x6" POST

RP NAIL IN 10" TREE

RP NAIL IN 5" TREE

RP NAIL IN TEL. MARKER POST

RP NAIL IN WEST END OF HEADWALL

RP NAIL IN 8" OAK

RP NAIL IN 48" TREE

RP NAIL IN GUY POLE

RP NAIL IN 18" DBL OAK

TBM NE CORNER OF SOUTH ABUTMENT, 6° RIGHT OF STA. 572+98 ELEV. 423.30

TBM CLUSTER OF NAILS IN POWER POLE 45° LEFT OF STA. 592+00 ELEV. 427.25

No.	DATE	REVISION	By

4/63
Kim

SONOMA AQUEDUCT
570+00 TO 600+00

SCALE: 1" = 100'
DATE: 2/22/1962
APPROVED: Harden W. Smith, CHIEF ENGINEER RE 8271
DRAWN SKMc
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR & JEA RE 13031
SUBMITTED OLW RE 8557 o.f.w.
DRAWING NUMBER 52-4-102.32

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
QUANTITIES CHECKED
B. M. & NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO., S. F., CAL.
NO. 1000H-1

620
460
450
440
430
420
410

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H=230 FT (100 PSI)

CLASS A BACKFILL
CLASS C BACKFILL
CLASS B BACKFILL

CLASS C BACKFILL
CLASS A BACKFILL

CLASS D BACKFILL

600+08 INSTALL 8" TO RIGHT TYPE B SEE DWG DS 118

PT&T CABLE

15" CONCRETE PIPE

24" CMP

15" CONCRETE PIPE

INSTALL AT HIGH POINT 1" AIR VALVE TYPE B

INSTALL AT HIGH POINT 1" AIR VALVE TYPE B

EXISTING GROUND LINE

8" SEWER

RAISED GRADE 2' CUT 1'

LOWERED GRADE 2'

600+00 605+00 610+00 615+00 620+00 625+00 630+00

FRANCES MINOTTI, MEDA LOCATELLI & ELVIA FAVA
BOOK 1553 O.R. PAGE 64 S.C.R.
BOOK 1842 O.R. PAGE 355 S.C.R.

HARRIET & BERNARD de la G. GREEFF
BOOK 1227 OR PAGE 161 SCR
" 1474 " " 379 "
" 1475 " " 455 "
" 1501 " " 311 "

TURN OUT TO: M. STANLEY 3" METER
20' CONSTRUCTION EASEMENT
40' PERMANENT EASEMENT

35' CONSTRUCTION EASEMENT
25' PERMANENT EASEMENT

LAWNDALE ROAD

15" CONCRETE PIPE
24" CMP
15" CONC. PIPE
DITCH
EP LAWNDALE ROAD
DITCH
VINEYARD
VINEYARD
DITCH
PERMANENT EASEMENT LINE
SMALL CREEK
8" P.V.C. SEWER LINE OCT. 88
FORMERLY S.P.R.R.
14' CULVERT
630+00 MATCH LINE

EP
EP
PP
PP
PP
PT&T CABLE
CURVE SIGN
REFLECTING SIGN
BRUSHY AREA
OLD RR BED

600+00 MATCH LINE
LAWNDALE ROAD

PERMANENT EASEMENT, SOUTHERLY 40.0 OF FORMER SOUTHERN PACIFIC RAILROAD RIGHT OF WAY

CONSTRUCTION EASEMENT, NORTHERLY 20.0 OF FORMER SOUTHERN PACIFIC RAILROAD RIGHT OF WAY

TURN OUT TO: OAKMONT 6" METER

SCALE IN FEET
200 150 100 50 0 100

RP NAIL IN WALNUT TR.
RP NAIL IN 48" OAK
RP NAIL IN PRUNE TREE
RP NAIL IN 16" OAK
RP NAIL IN LIMB OF TREE
RP NAIL IN TEL. MARKER POST
RP NAIL IN 10" OAK
RP NAIL IN 30" OAK
RP NAIL IN FENCE POST
RP NAIL IN FENCE POST
RP NAIL IN 6" OAK

TBM NAIL IN 2"x12" TIMBER AT WEST END OF NORTH HEADWALL 300' RIGHT OF STA. 599+94 — ELEV. 426.45

TBM RAILROAD SPIKE IN 20" OAK 58' RIGHT OF STA. 621+60 ELEV. 443.21

Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
600+00 TO 630+00

SCALE: 1" = 100'
DATE: FEB. 24, 1962
APPROVED Jordan W Miller CHIEF ENGINEER R.E. 8271
DRAWN SKMc
O.L.W. RE8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR
J.E.A. RE 13031
SUBMITTED
O.L.W. RE8557
DRAWING NUMBER
52-4-102.33

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
DRAWN CHECKED
TRACED
QUANTITIES CHECKED
R. M. S. POSTED
STRUCTURE QUANTITIES CHECKED
BY
DATE

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
DRAWN CHECKED
TRACED
QUANTITIES CHECKED
R.T. OF WAYS CHECKED
BY
DATE

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARWHITE PAPER CO., S. F. CAL.
NO. 1000H-1

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
STRUCTURE NOTATING CHECKED

NOTE BOOK
NO.

BY

DATE

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H = 230 FT. (100 P.S.I.)

20" H = 170 FT. (75 P.S.I.)

CLASS D BACKFILL

CLASS B BACKFILL

CLASS A BACKFILL

CLASS D BACKFILL

EXISTING GROUND LINE

1/2" ELECTRIC CABLE

4" WATER LINE

INSTALL AT HIGH POINT 2" AIR VALVE TYPE A

6446+53 INSTALL 6" TIC RT TYPE B - SEE DWG. DS 118

INSTALL AT HIGH POINT 2" AIR VALVE TYPE A

INSTALL AT HIGH POINT 2" AIR VALVE TYPE A

620 470 460 450 440 430 420

630+00 635+00 640+00 645+00 650+00 655+00 660+00

JAN. 1981 - PITTMAN RD. TIE IN 20"x 24" "T" WITH BUTTERFLY VALVES INSTALLED TO TIE IN WITH NEW AQ. TO BE BUILT LATER. 20" Butterfly Valves.

PERMANENT EASEMENT SOUTHWESTERLY 40' OF FORMER SOUTHERN PACIFIC RAILROAD RIGHT OF WAY
CONSTRUCTION " NORTHEASTERLY 20' " " " " " " " " "

6-22-76 6" A/C WATER MAIN FROM UPPER SRWA TO GOLF LINK LAKE INSTALLED NOW DEEP 5' COVER AQ. APPROX. STA. 634+58

6-22-76 13" DIA. OAK TREE & RIP RAP

6" A/C WATER MAIN FROM SRWA TO GOLF LINK LAKE

STA. 6+40.00 FEET 3" TEL. CABLE CROSSING TO SOUTH

STA. 6+40.00 FEET 3" TEL. CABLE CROSSING TO SOUTH

8-20-73 REMOVED AC PIPE & CAPPED OFF AT ENG. ANGLE

8-20-73 REMOVED AC PIPE & CAPPED OFF AT ENG. ANGLE

AQ 9' DEEP & 8' SOUTH OF 1½' HEADWALL

HARRIET B BERNARD DE LA G GREEFF
BOOK 1227 O.R. PAGE 161 S.C.R.
BOOK 1474 O.R. PAGE 379 S.C.R.
BOOK 1473 O.R. PAGE 455 S.C.R.
BOOK 1501 O.R. PAGE 311 S.C.R.

4/10/73 INSTALLED 8CH 80 RISER & 1 ANODE ON SOUTH SIDE AQ-AQ 58" DEEP

SCALE IN FEET 200 150 100 50 0 100

PAVED DRIVEWAY

POWER POLE W/ GUY

POWER POLE

GUY

DRIVE

WATER TROUGH

GATE

912'

24" CONCRETE PIPE

8-24-73 3" DIA. TEL. CABLE 65" DEEP WASHED TO THE SOUTH FROM NORTH SIDE OF AQ 24" DEEP

8-24-73 2" MK. ANGLE @ 4-1-73 INSTALLED BOND

FORMER SP RR

STA. 644+14 - 647+69 TELCO INSTALLED 1" DIA CABLE ABVE AQ 3' DEEP FROM EXISTING GRADE LEVEL RUBBER WATER INSULATED CABLE

1/2" ELECTRIC CABLE

4" WATER LINE (PLASTIC)

6" A/C WATER MAIN TO LAKE

8-24-73 NEW GOLF LINKS AREA LAKE

TURN OUT TO OAKMONT GOLF COURSE - LAKE #2

4" TURNING NOTCH WITH 4" GATE VALVE NO. 1 FROM

8-20-73 INSTALLED 8" DIA. STEEL PIPE CASING UNDER ROAD WITH 2" DIA. VENT PIPE 7' DEEP 8' SOUTH OF AC

8-20-73 INSTALLED 8" DIA. STEEL PIPE CASING UNDER ROAD WITH 2" DIA. VENT PIPE 7' DEEP 8' SOUTH OF AC

9/73 DEEP CUT GRADE

7-15-1935 STN GREEN INSTALLED 24" DIA. AC PIPE 5' DEEP

7-15-1935 STN GREEN INSTALLED 24" DIA. AC PIPE 5' DEEP

STN GREEN INSTALLED 24" DIA. AC PIPE 5' DEEP

STN GREEN INSTALLED 24" DIA. AC PIPE 5' DEEP

9-1973 DEEP CUT GRADE

10" A/C WATER MAIN 4' DEEP

STA 649+70 REGIN TEL. CABLE CROSSING TO NORTH

STA 649+70 REGIN TEL. CABLE CROSSING TO NORTH

CRACKED CONC.

24" PIPE

OLD RAILROAD BED

TELEPHONE CABLE

OLD RAILROAD BED

TELEPHONE CABLE

12" CONCRETE PIPE

OAKMONT ROAD

24" OAKMONT AQUEDUCT

PITTMAN ROAD

MATCH LINE 630+00

MATCH LINE 660+00

R.P. NAIL IN 8" TREE

RP NAIL IN 10" TREE

RP NAIL IN 12" OAK

RP NAIL IN 8"x 8" GATE POST

RP NAIL IN 8"x 8" GATE POST

RP NAIL IN POWER POLE

RP NAIL IN 10" OAK

RP NAIL IN NORTH END OF EAST HEADWALL

RP NAIL IN 6"x 6" FENCE POST

USC & GS BM "J-205" 15⁰ LEFT
STA 640+82 ELEV 458.40

4/11/73 INSTALLED 8CH 80 CAN STEEL RISER & 1 ANODE SOUTH SIDE AQ @ 645+22 AQ 56" DEEP

9/73 4" GREY PVC EL-EE DUCT 36" DEEP @ ± 7½' 40.09 NORTH OF AQ 2" PVC DUCT @ ± 647+09

TBM, RAILROAD SPIKE IN 10" OAK 44.0' RIGHT OF STA 658+00 ELEV 459.97

Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
630+00 TO 660+00

SCALE: 1" = 100'
DATE: FEB 22, 1962
APPROVED Gordon W. Smith CHIEF ENGINEER RE 8271
DRAWN BAUER
O.L.W. RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. J.R.
J.E.A. RE 13031
SUBMITTED O.L.W. RE 8557
DRAWING NUMBER 52-4-102.34

4/83
KM

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT OF WAY CHECKED

NOTE BOOK
NO.

BY

DATE

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION DESIGN HYDRAULIC GRADE LINE 620

620 / 470 / 460 / 450 / 440 / 430 / 420

20" H=170 (75 P.S.I)

20" H=230 FT. (100 P.S.I)

CLASS D BACKFILL

CLASS B BACKFILL

CLASS D BACKFILL

EXISTING GOUND LINE

RAISED GRADE

LOWERED GRADE

RAISED GRADE

DELETED
INSTALL AIR VALVE TYPE 1B

DELETED
INSTALL AIR VALVE TYPE 1B

STA 676+35 INSTALL 6" T.O. RL TYPE A SEE DWG DS 118

DELETED
SEE DWG DS 118

INSTALL AT HIGH POINT 1"/2" AIR VALVE TYPE B

660+00 / 665+00 / 670+00 / 675+00 / 680+00 / 685+00 / 690+00

PERMANENT EASEMENT SOUTHWESTERLY 40' OF FORMER SOUTHERN PACIFIC RAILROAD RIGHT OF WAY
CONSTRUCTION " NORTHEASTERLY 20' " " " " " " " "

HARRIET B BERNARD DE LA GREEFF
BOOK 1227 O.R. PAGE 161 S.C.R.
BOOK 1474 O.R. PAGE 379 S.C.R.
BOOK 1475 O.R. PAGE 455 S.C.R.
BOOK 1501 O.R. PAGE 311 S.C.R.

HILLCONE STEAMSHIP COMPANY
BOOK 1028 O.R. PAGE 1 S.C.R.
BOOK 1608 O.R. PAGE 630 S.C.R.

STA 661+35 5-31-73 6" BLUE DOT SPRINKLING SYSTEM WATER PIPE INSTALLED WITH 6 ELEC. WIRES 24" DEEP

CURB LINE STA 661+54

5-31-73 PAVED STREET 42' WIDE

STA 661+94 CURB LINE

VALLEY VIEW DR.

STA 662+68 5-17-69 INSTALLED 12" GATE VALVE 18" SOUTH OF METER

STATION TRICKWELL 6" TEE BELOW

STA BOOSTER PUMP STATION (PIPE 4'5" DEEP)

4/10/73 - 663+00 SCAR 200 RUBBER TREE 1 ANODE 6.5" DIA SIDE INCR FOR 43" DEEP

NOTE: SMALL TREES BETWEEN STA 659+00 TO 668+00

18" C.M.P.

OLD RAILROAD BED

PT&T CABLE

8/10/72 15" A/C STORM DRAIN

12" CONC. PIPE

MATCH LINE 660+00

661+96 38 DEF LT 0°07'30"

11-2-71 STA 662+69 TRANSITION 3-1/2" DIA PRIMARY ELEC. CABLES 22 KV 1-2" DIA SECONDARY ELEC. CABLE 1-2" DIA P.V.C. CONDUIT BACKFILLED WITH CLSM 1-2" DIA PLASTIC PIPE T.V. & TEL. CABLES 36" DEPTH

STA 662+92 SOLDER INSTALLED 8" INTERCEPT TAP C/L OF AQUEDUCT 81° GATE VALVE FOR REMOVING AIR VALVE

R.P. NAIL IN 10" OAK 46 06 / 35 78 R.P. NAIL IN 18" OAK

661+96 38 DEF LT 0°07'30"

80 08 R.P. NAIL IN TOP OF FENCE 49 76 6"x6" POST

668+19 05 DEF LT 6°44'00"

57 67 / 48 64 R.P. NAIL IN TOP OF 8"x8" FENCE POST

671+03 99 DEF LT 9°36'23"

42 99 / 71 90 R.P. NAIL IN TOP OF FENCE POSTS

674+27 27 DEF LT 6°54'53"

55 05 / 69 38 R.P. NAIL IN TOP OF FENCE POSTS

677+60 70 DEF LT 0°04'30"

35 98 / 95 78 R.P. NAIL IN 6" WILLOW / R.P. NAIL IN COR. FENCE POST

685+62 75 DEF LT 0°13'35"

TBM-RAILROAD SPIKE IN 10" OAK
30' RIGHT OF STA. 666+10
ELEV. 459.01

STA 678+27 10" TRANSITE IRRIGATION MAIN INSTALLED 46" TO TOP OF 10" MAIN 8-21-64

STA 675+37 6" SEWER MAIN TRANSITE INSTALLED 13" DEEP ON 9-17-64

9-15-72 STA 675+28 36" RCP STORM DRAIN

25' CONSTRUCTION EASEMENT

FORMER SP RR

PT&T CABLE

6" A.C.

OLD RAILROAD BED

SMALL CREEK

TO ANNADEL RESERVOIR SEE DWG 52-4-102.46

8" DOC TEE

54 26" DOC BEND

8" DOC TEE

LINE CHANGE 2' WEST

36" CONC. PIPE

690+00 MATCH LINE

T.B.M: NAIL IN 12" OAK 46' RIGHT OF STA. 687+55 ELEV. 446.59

SCALE IN FEET 200 150 100 50 0 100

Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
660+00 TO 690+00

SCALE: 1" = 100' | APPROVED | DRAWN CWE

DATE: FEB-23-1962 | CHIEF ENGINEER RE 8271 | OLW RE 8557

4/1/63

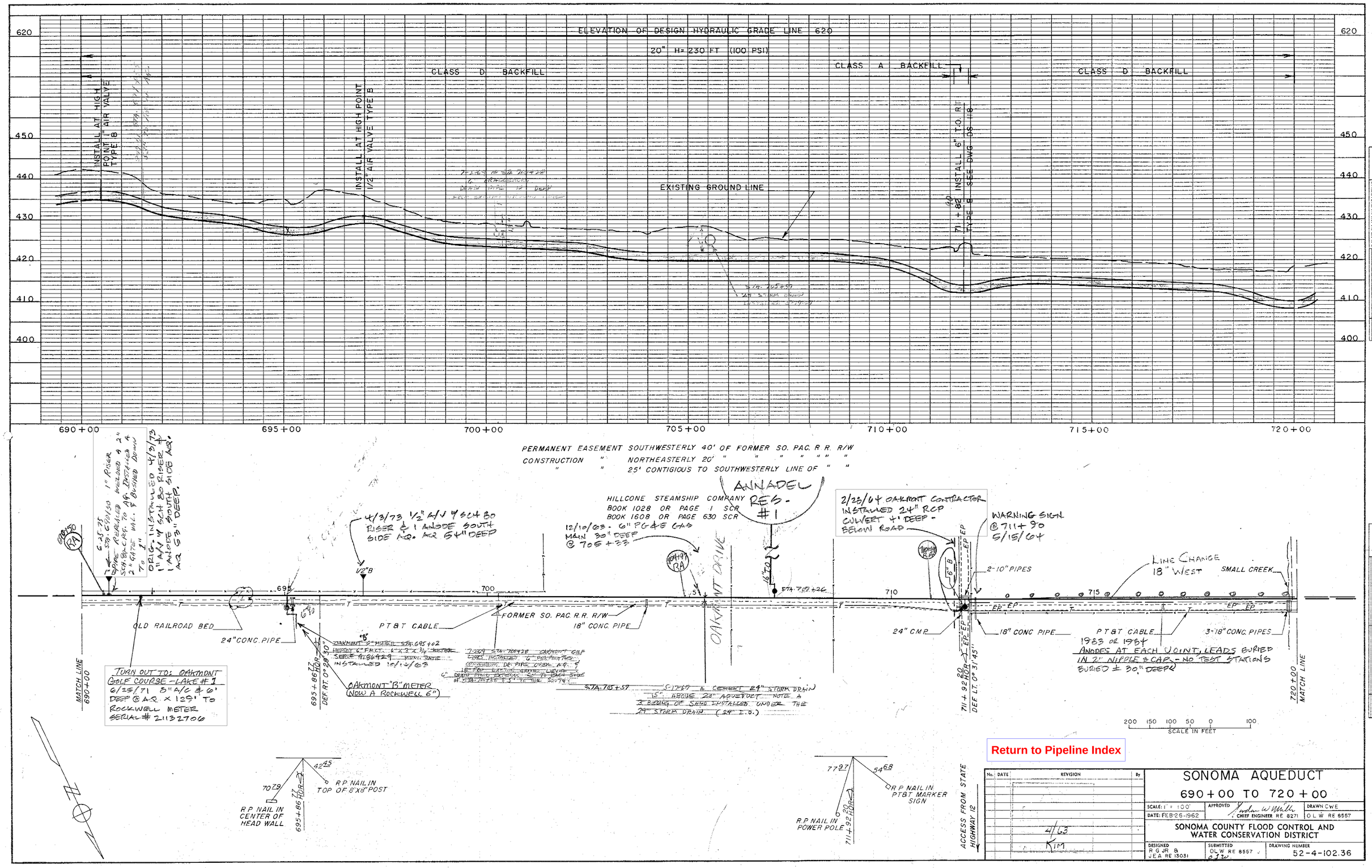
KIM

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR & JEA RE 13031 | SUBMITTED OLW RE 8557 | DRAWING NUMBER 52-4-102.35

PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
CHECKED
R. M. S. NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

PLAN
NOTE BOOK NO. ____
SURVEYED
PLOTTED
CHECKED
R/W CHECKED
BY
DATE



Return to Pipeline Index

No.	DATE	REVISION	By
		4/63 KIM	

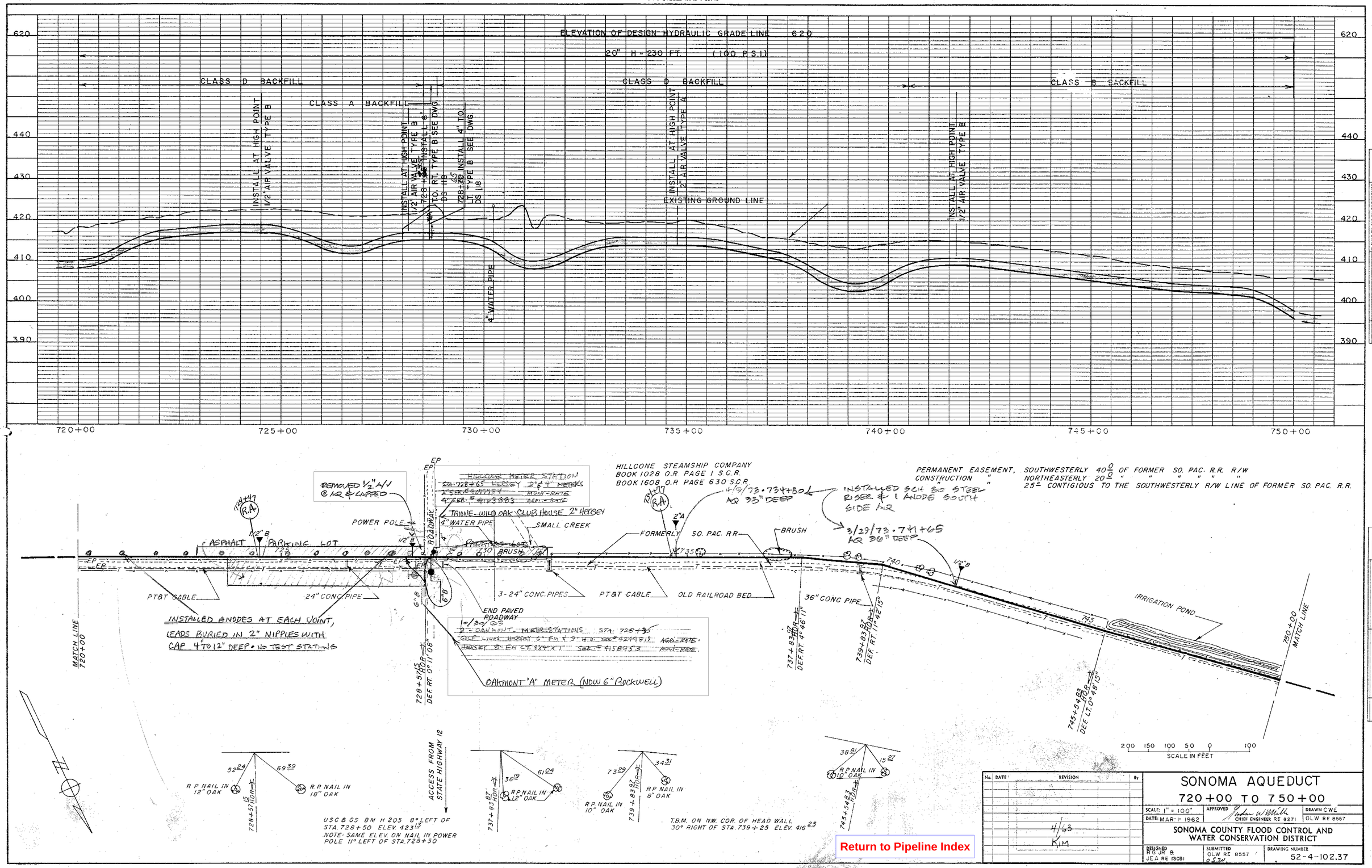
SONOMA AQUEDUCT

690+00 TO 720+00

SCALE: 1" = 100'
DATE: FEB-26-1962
APPROVED: Jordan W. Miller, CHIEF ENGINEER RE 8271
DRAWN CWE
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R G JR & J E A RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.36



No.	DATE	REVISION	By
		4/63 KIM	

SONOMA AQUEDUCT

720+00 TO 750+00

SCALE: 1" = 100"
DATE: MAR. 1 1962
APPROVED: CHIEF ENGINEER RE 8271
DRAWN C.W.E.
OLW RE 8557

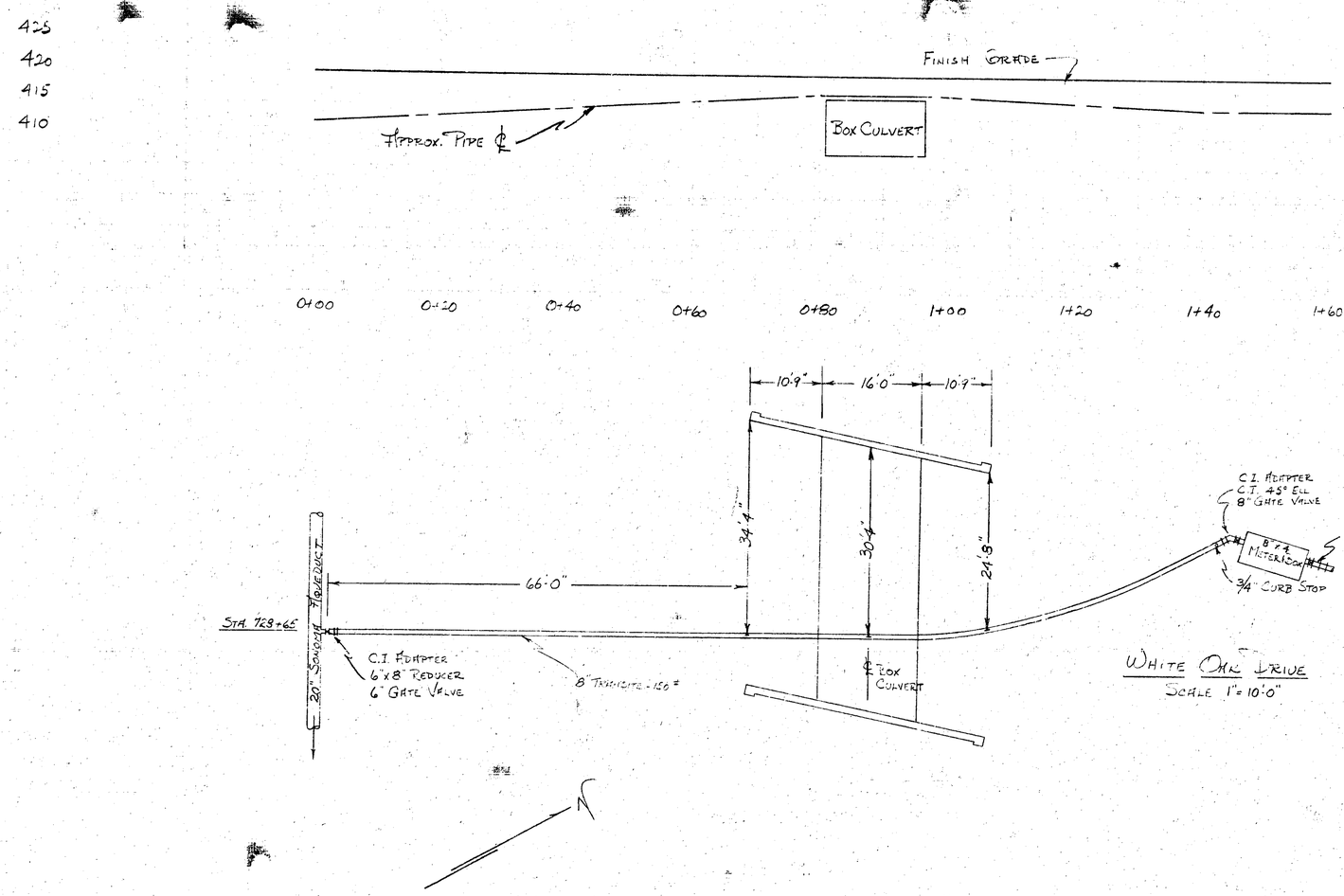
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

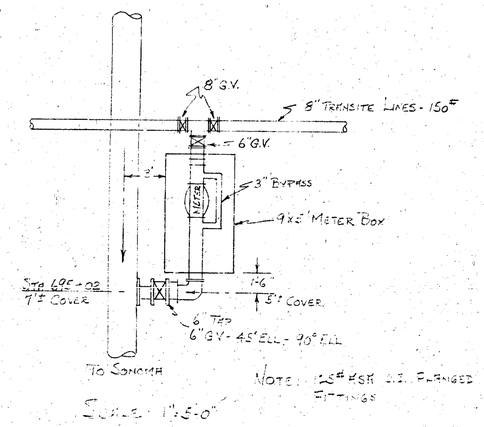
DESIGNED R.G. JR. & J.E.A. RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.37

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. & NOTED
STRUCTURE NOTATIONS CHK'D
BY
DATE

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

Return to Pipeline Index





SN1ME541 6" (STA. 728+65)
SN1ME551 6" (STA. 695+02)

Return to Pipeline Index

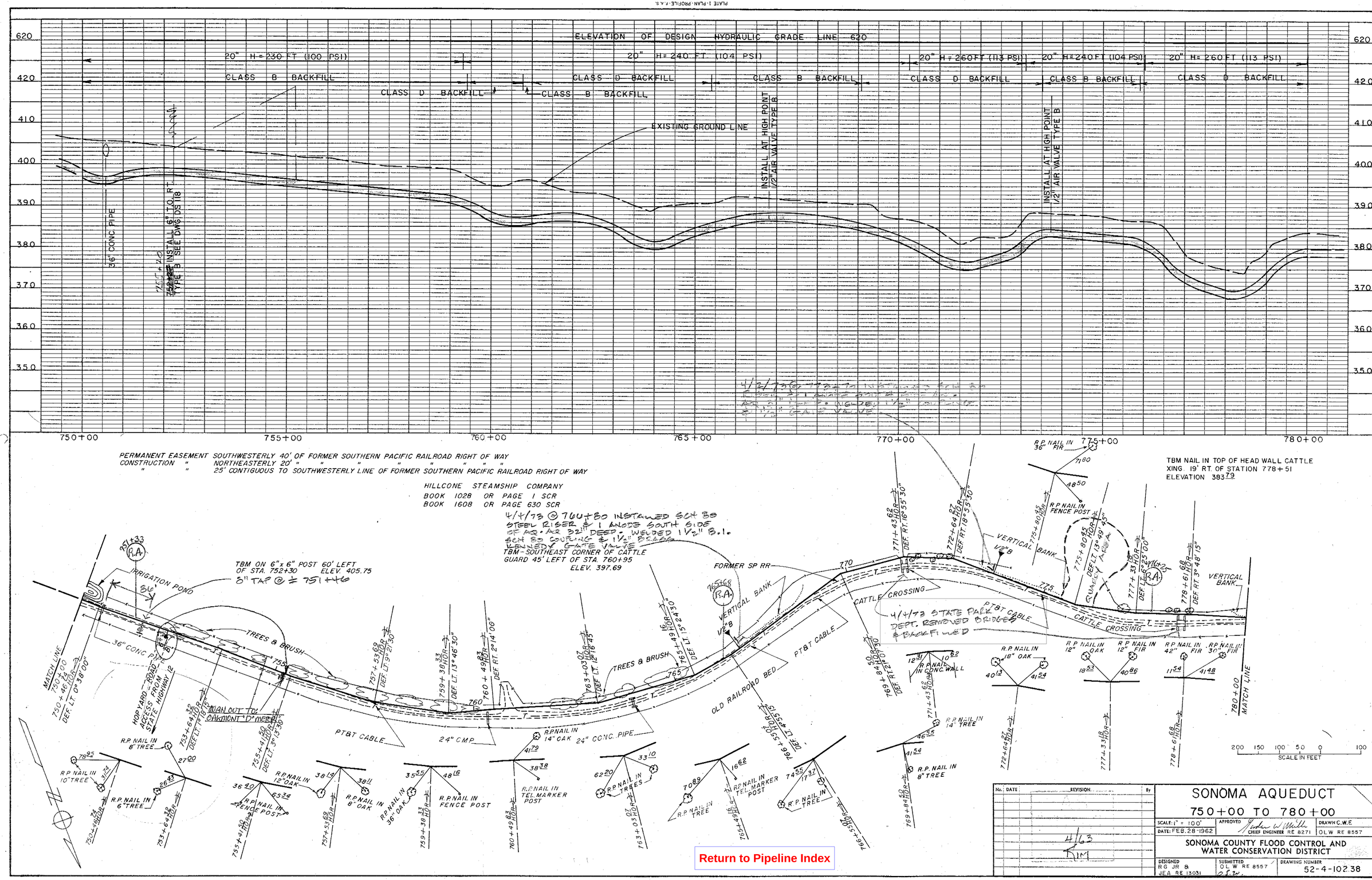
No.	DATE	REVISION	By

SONOMA AQUEDUCT
OFFTAKE TURNOUTS - STA. 695+02 & 728+65

SCALE: FULL SIZE | APPROVED | DRAWN: KIM
DATE: 2/64 | CHIEF ENGINEER

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | SUBMITTED | DRAWING NUMBER: 52-4-102.37A



No.	DATE	REVISION	By

SONOMA AQUEDUCT

750+00 TO 780+00

SCALE: 1" = 100'
DATE: FEB. 28-1962
APPROVED: CHIEF ENGINEER RE 8271
DRAWN C.W.E.
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR & JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.38

4/63
RIM

Return to Pipeline Index

PLATE 1. PLAN-PROFILE, F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

SONOMA AQUEDUCT
780+00 TO 810+00

SCALE: 1" = 100'
DATE: FEB 29, 1962
APPROVED John W White
CHIEF ENGINEER RE 8271
DRAWN BAUER
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR & JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.39

No.	DATE	REVISION	By
		4/68 RM	

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'S NOTED
STRUCTURES NOTATING CHK'D
NOTE BOOK NO.
BY
DATE

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

Return to Pipeline Index

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H = 280 (121 PSI) | 20" H = 300 FT (130 PSI) | 20" H = 320 FT (139 PSI)

CLASS D BACKFILL | CLASS D BACKFILL | CLASS B BACKFILL | CLASS D BACKFILL | CLASS B BACKFILL

CLASS B BACKFILL

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

INSTALL AT HIGH POINT 1" AIR VALVE TYPE B

INSTALL AT HIGH POINT 1/2" AIR VALVE TYPE B

8+26+20 = 6"TO LT. TYPE B

EXISTING GROUND LINE

12" CONC PIPE

36" CONC PIPE

838+94 BEGIN CASING BOTTOM CASING ELEV 318.00

TELEPHONE CABLE

620 | 360 | 350 | 340 | 330 | 320 | 310

810+00 | 815+00 | 820+00 | 825+00 | 830+00 | 835+00 | 840+00

PERMANENT EASEMENT SOUTHWESTERLY 40' OF FORMER SOUTHERN PACIFIC RAILROAD RIGHT OF WAY
CONSTRUCTION " " NORTHEASTERLY 20' " " " " " " " "
" " " 25' CONTIGUOUS TO THE SOUTHWESTERLY LINE OF FORMER SOUTHERN PACIFIC RAILROAD RIGHT OF WAY

HILLCONE STEAMSHIP COMPANY
BOOK 1563 OR PAGE 168 SCR
BOOK 1608 OR PAGE 630 SCR

Return to Pipeline Index

200 150 100 50 0 100
SCALE IN FEET

CASING DETAILS SHALL BE THE SAME AS THOSE SHOWN ON DWG 52-4-102.7 EXCEPT THAT THE CASING SHALL BE 36" IN DIAMETER (THE ABOVE NOTE ALSO APPLIES TO DWG 52-4-102.41)

MATCH LINE 810+00

18" CONC PIPE

OLD RAILROAD BED

24" CONC PIPE

DRIVE

FEED BIN

GUY POWER POLE

TELEPHONE CABLE

CATTLE GUARD 2-24" CONC PIPES

12" CONC PIPE

VERTICAL BANK

CATTLE GUARD

TELEPHONE JUNCTION BOX

OLD RAILROAD BED

36" CONC PIPE

TELEPHONE CABLE

GUY POWER POLE

MATCH LINE 840+00

TBM NAIL IN NORTHWEST CORNER OF HEADWALL 24' RIGHT OF STA 821+08 ELEV 345.92

HILLCONE STEAMSHIP CO. BOOK 1028 OR PAGE 1 SCR

RP NAIL IN 30" OAK

RP NAIL IN 2x2 STAKE

RP NAIL IN HEADWALL

RP NAIL IN 2x2 STAKE

RP NAIL IN CORNER OF BARN

RP NAIL IN FENCE POST

RP NAIL IN FENCE POST

2x2 STAKE ON FENCE LINE

2 2 STAKE ON FENCE LINE

RP NAIL IN 6" PEPPERWOOD

RP NAIL IN 6x6 POST

RP NAIL IN 2x2 STAKE

RP NAIL IN POWER POLE

SONOMA AQUEDUCT
810+00 TO 840+00

MAR 1962

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

52-4-102 40

PLATE 1. PLAN. PROFILE. F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

20" H = 320 FT (139 PSI)

CLASS D BACKFILL

CLASS D BACKFILL

CLASS C BACKFILL

CLASS A BACKFILL

CLASS B BACKFILL

EXISTING GROUND LINE

FINISHED GRADE PER SCHEDULES B AND C SANTA ROSA CREEK DIVERSION

EXISTING GROUND LINE

FINISHED GRADE AS PER "S2" LINE SANTA ROSA CREEK DIVERSION CHANNEL, SCHEDULE B

841+56 END 36" OPEN TRENCH CASING, BOTTOM CASING ELEV 316.00

BEGIN ALTERNATE PROFILE

10" CONC. PIPE

841+56 TO TYPE B

ALTERNATE "B"

ALTERNATE "A"

SEE SPECIFICATIONS FOR INFORMATION CONCERNING ALTERNATE PROFILES "A" AND "B"

620 340 330 320 310 300 290

840+00 841+00 842+00 843+00 844+00 845+00 846+00 847+00 848+00 849+00 850+00 851+00 852+00

MATCH LINE 840+00

HILLCONE STEAMSHIP CO. BK. 1028 O.R., PG. 1, S.C.R.

℄ HIGHWAY 12 FREEWAY (FUTURE) "S" LINE

TELEPHONE CABLE

OLD RAILROAD BED

43°20'56"

℄

DRIVEWAY

1" WATER & ELECTRIC LINE ON SURFACE

840+23.85 POT ℄ SONOMA AQUEDUCT = 3"-386+16.76 POI ℄ HIGHWAY 12 FREEWAY

(SEE NOTE DWG. 52-4-102.40) 841+56 END 36" OPEN TRENCH CASING

841+71.02 HOR ∠ DEF LT 43°12'11"

841+71.02 HOR ∠

10" CONCRETE PIPE

EP EP

POWER POLE

GUY

843+57.53 HOR ∠ DEF RT 2°38'08"

DUG WELL

EXISTING MONTGOMERY DRIVE

SHED

10" WELL CASINGS

POND

EP

"S2" LINE

8" WELL CASING

VOID

STA. 846+26.40

THIS PORTION VOID - SEE DWG. 52-4-102.41A

To 860+55.60

SONOMA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT

RP NAIL IN 2x2 STAKE

USC & GS BM G 205

RP NAIL IN 2x2 STAKE

69 32

38 37

73 95

841+71.02 HOR ∠

USC & GS BM "G-205" 302 FEET LEFT OF STATION 841+98 ELEV 329.50

RP NAIL IN POWER POLE

RP NAIL IN GUY POLE

23 97

69 30

843+57.53 HOR ∠

NOTE —

BACKFILL AS SHOWN ON THIS DRAWING IS FOR PIPELINE PROFILE ALTERNATE "A"

BACKFILL FOR PROFILE ALTERNATE "B" SHALL BE CLASS "B" FROM STA. 841+56 TO STA. 852+00. BACKFILL FOR OTHER LOCATIONS SHALL BE AS SHOWN

RP NAIL IN FENCE POST

26 66

49 21

848+60.18 HOR ∠ BACK = 848+73.37 HOR ∠ AHEAD

848+80.12 HOR ∠ BACK = 848+73.37 HOR ∠ AHEAD DEF LT 0°59'19"

EQUATION

852+00 MATCH LINE

Return to Pipeline Index

80 60 40 20 0 40
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
STRUCTURE NOTATIONS CHK'D
NOTE BOOK NO.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK NO.

BY
DATE

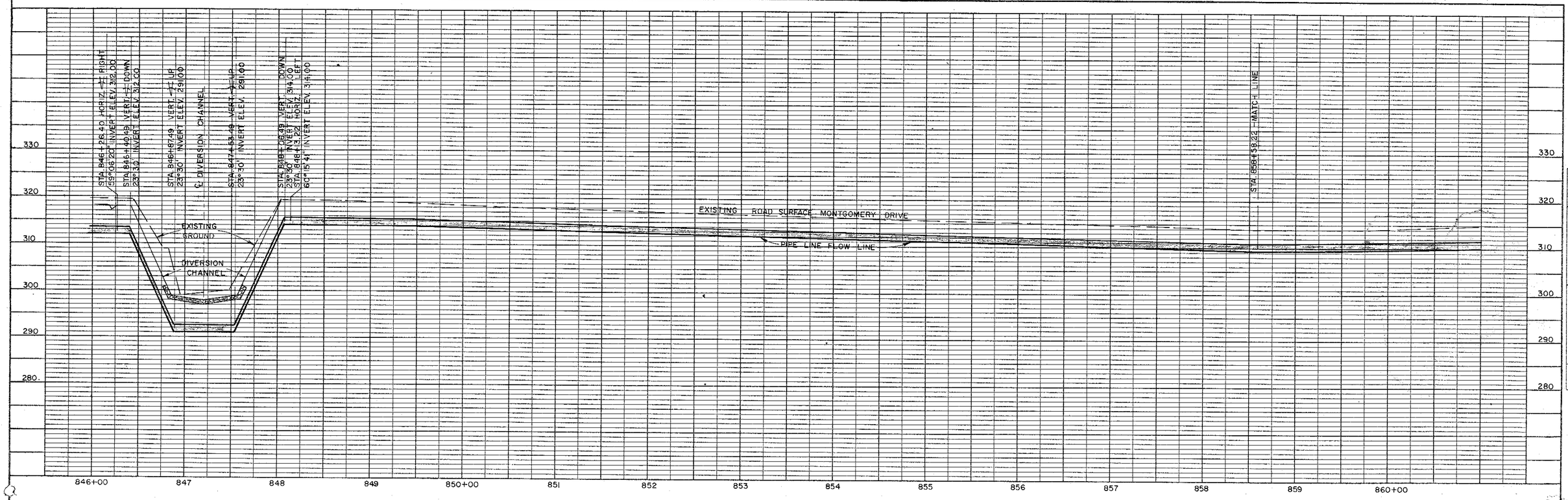
No.	DATE	REVISION	By

SONOMA AQUEDUCT
840+00 TO 852+00

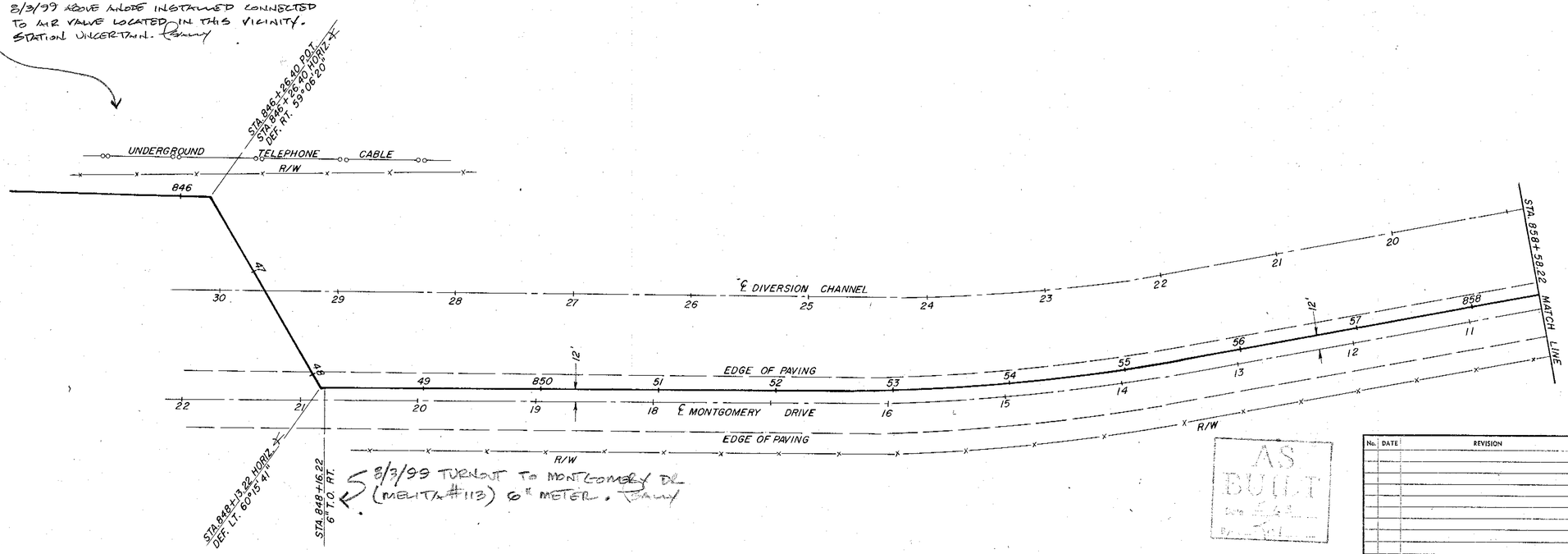
SCALE: 1" = 40'
DATE: MAR 5, 1962
APPROVED: Gordon W. Mills, CHIEF ENGINEER RE 8271
DRAWN BAUER
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RG JR & JEA RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.41



4/9/73 INSTALLED 1 ANODE 80" DEEP & ON SOUTH SIDE AQ.
8/3/99 ABOVE ANODE INSTALLED CONNECTED TO AIR VALVE LOCATED IN THIS VICINITY. STATION UNCERTAIN. [illegible]



8/3/99 TURNOUT TO MONTGOMERY DR (MELITA #113) 6" METER. [illegible]

85000
84900

Return to Pipeline Index

AS BUILT

No.	DATE	REVISION	By

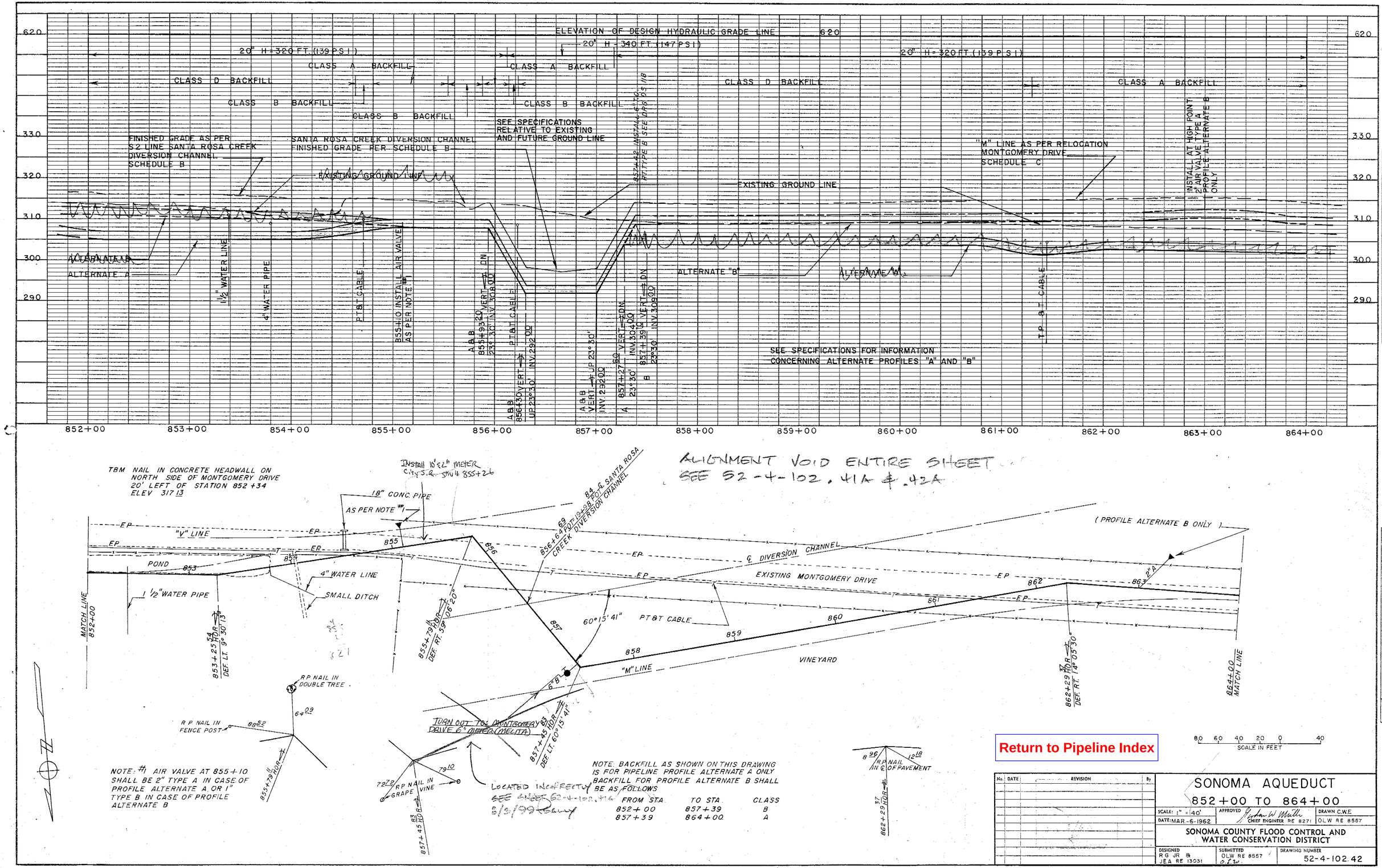
SONOMA AQUEDUCT
AS-BUILT
STA. 846+26.40 TO 858+58.22

SCALE: 1"=50' | APPROVED | DRAWN RHT
DATE: MAY 3, 1963 | CHIEF ENGINEER

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | SUBMITTED | DRAWING NUMBER 52-4-102.41-A

ALTERATION
102.41A



ALIGNMENT VOID ENTIRE SHEET SEE 52-4-102.41A & .42A

Return to Pipeline Index

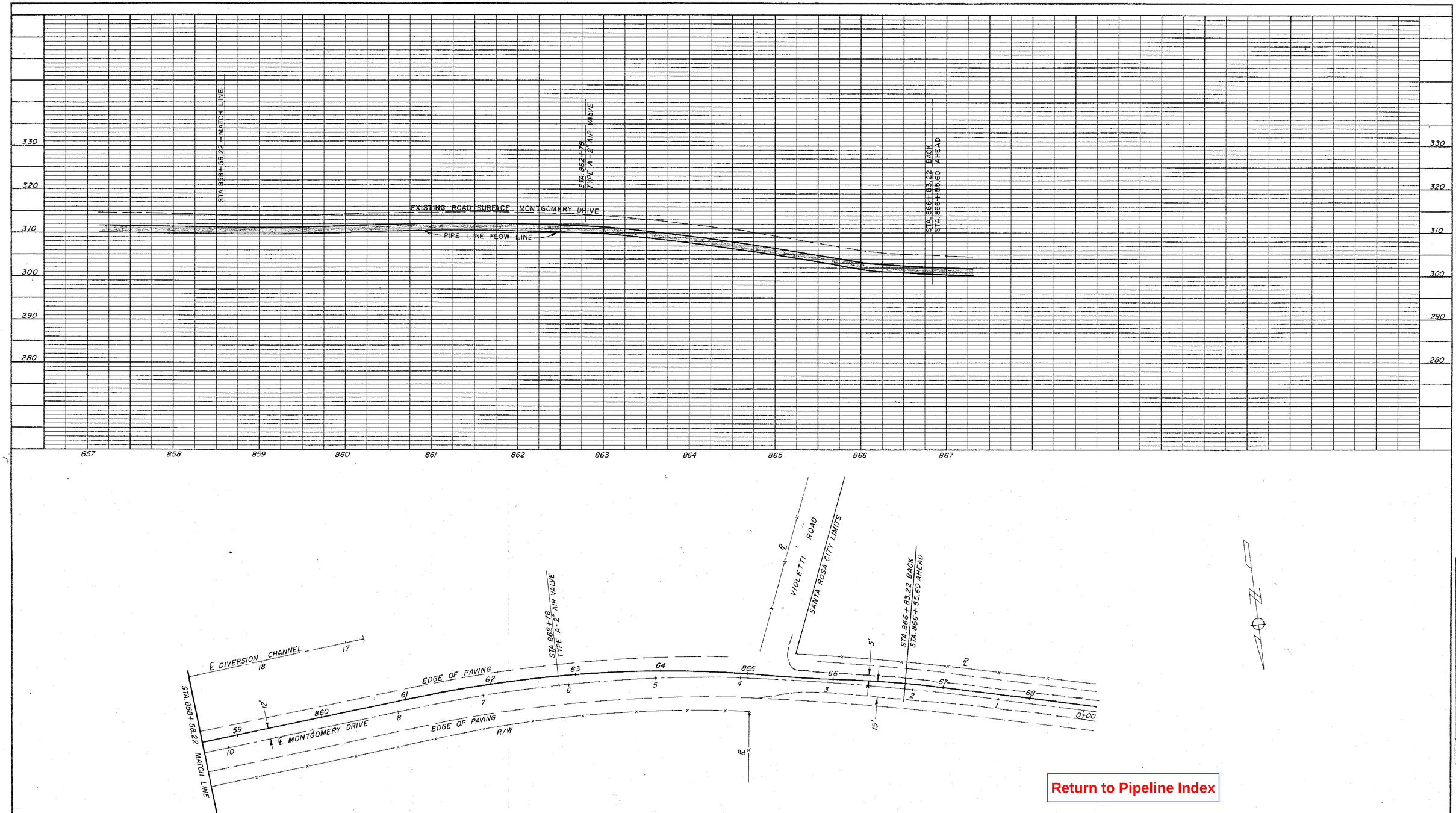
No.	DATE	REVISION	By

SONOMA AQUEDUCT
852+00 TO 864+00

SCALE: 1" = 40'
DATE: MAR.-6-1962
APPROVED: CHIEF ENGINEER RE 8271
DRAWN C.W.E.
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. & J.E.A. RE 13031
SUBMITTED OLW RE 8557
DRAWING NUMBER 52-4-102.42



Return to Pipeline Index

AS BUILT

No.	DATE	REVISION	By

SONOMA AQUEDUCT
AS-BUILT
STA. 858+58.22 TO 866+83.22

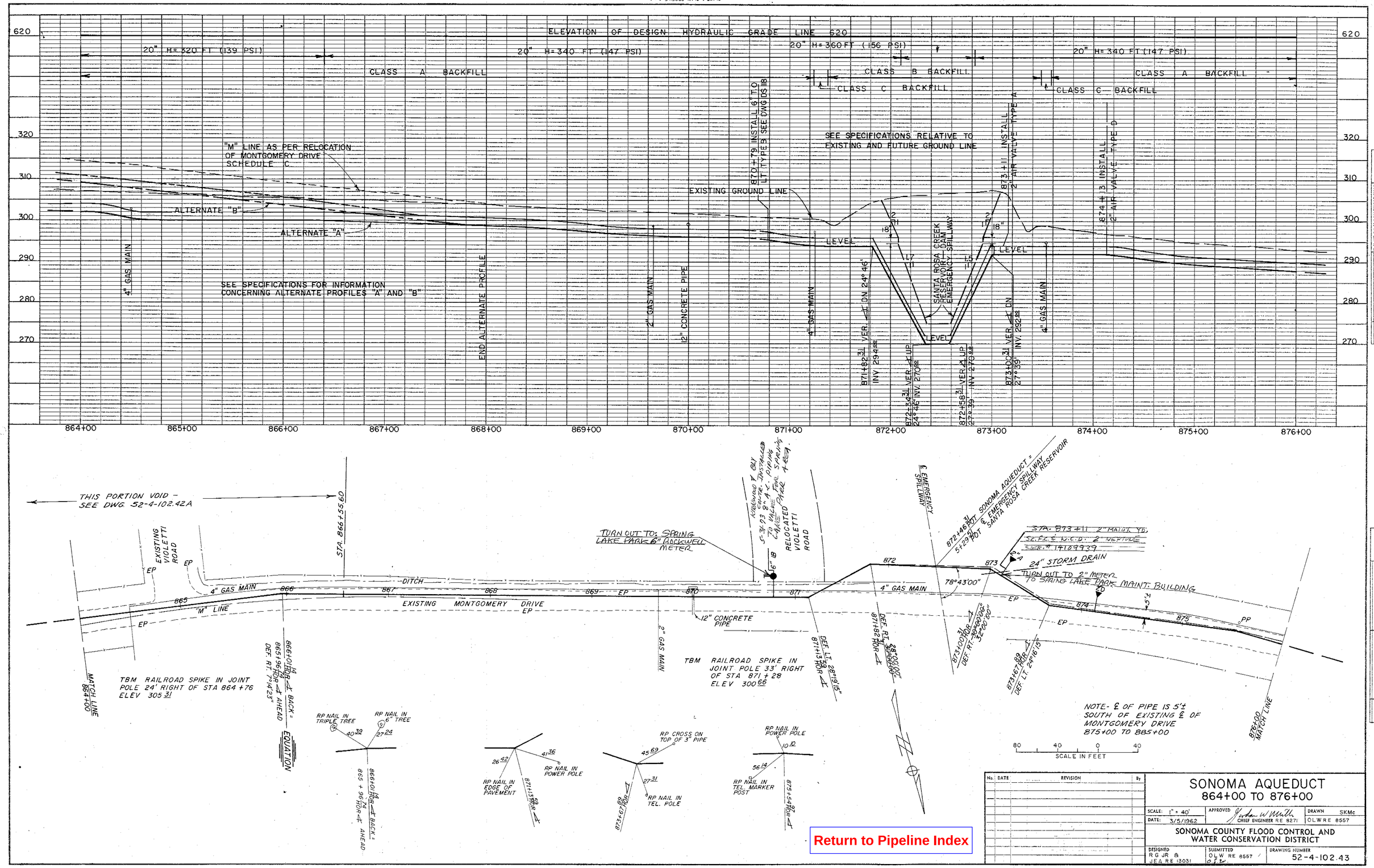
SCALE: 1"=50' | APPROVED | DRAWN RHT
DATE: MAY 6, 1963 | CHIEF ENGINEER

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | SUBMITTED | DRAWING NUMBER 52-4-102.42-A

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. & NOTED
STRUCTURE NOTAT'NS CH'K'D

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
864+00 TO 876+00

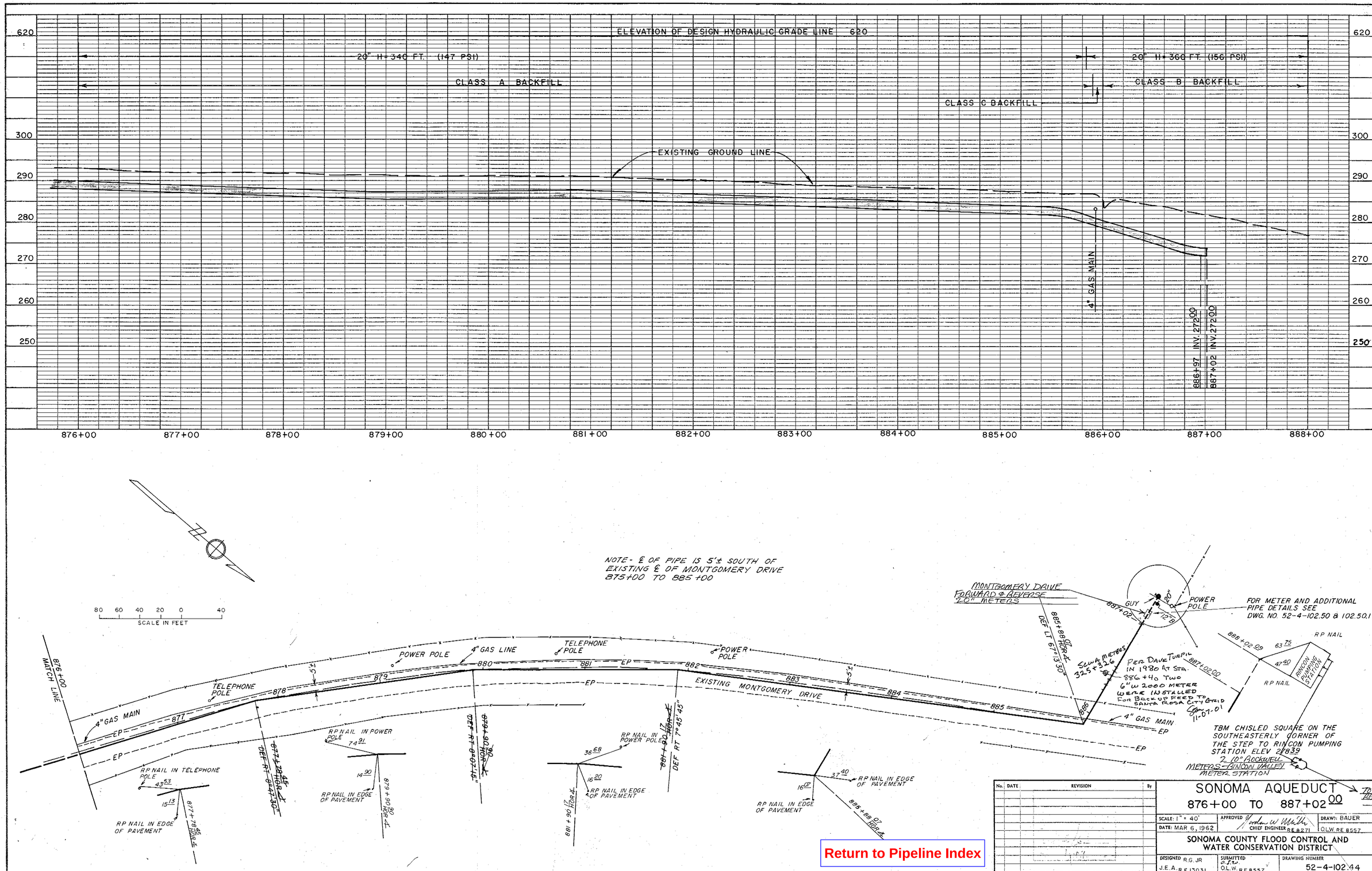
SCALE: 1" = 40'
DATE: 3/5/1962
APPROVED: CHIEF ENGINEER RE 8271
DRAWN: SKMc
OLW RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: RGJR & JEA RE 13031
SUBMITTED: OLW RE 8557
DRAWING NUMBER: 52-4-102.43

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. & NOTED
STRUCTURE NOTATIONS CHK'D

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



No.	DATE	REVISION	By

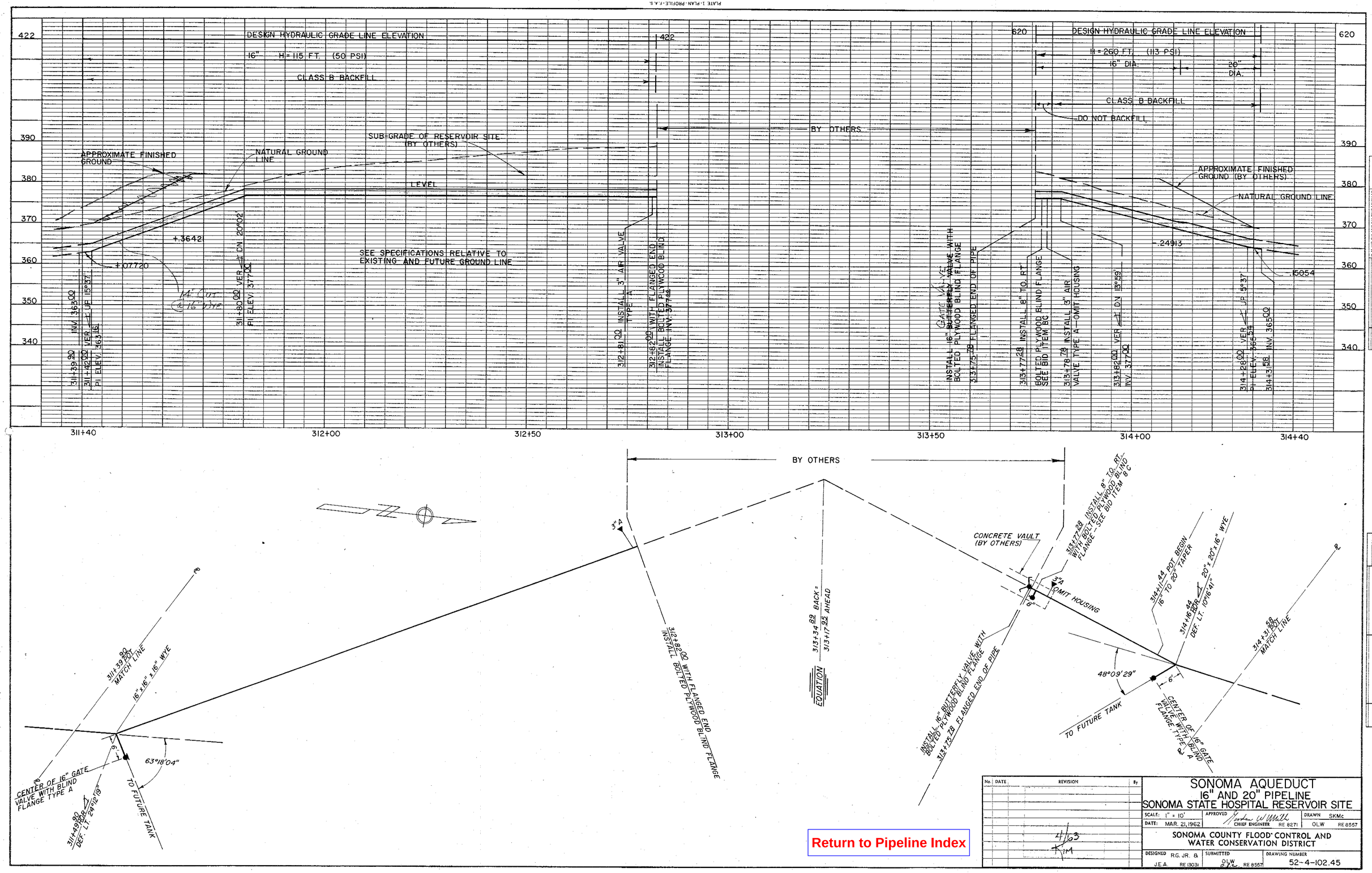
SONOMA AQUEDUCT
876+00 TO 887+02.00

SCALE: 1" = 40'
DATE: MAR 6, 1962
APPROVED: CHIEF ENGINEER R.E. 8271
DRAWN: BAUER
O.L.W. R.E. 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR
J.E.A. R.E. 13031
SUBMITTED O.L.W. R.E. 8557
DRAWING NUMBER 52-4-102.44

Return to Pipeline Index



Return to Pipeline Index

No.	DATE	REVISION	By

SONOMA AQUEDUCT
16" AND 20" PIPELINE
SONOMA STATE HOSPITAL RESERVOIR SITE

SCALE: 1" = 10'	APPROVED Gordon W. Mills CHIEF ENGINEER RE 8271	DRAWN SKMc	
DATE: MAR. 21, 1962		OLW RE 8557	

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R.G. JR. & J.E.A. RE 13031	SUBMITTED OLW RE 8557	DRAWING NUMBER 52-4-102.45

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M. ANOVER
STRUCTURE NOTATIONS CHK'D.
BY
DATE

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

PLATE 1. PLAN. PROFILE. F.A.B.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

ELEVATION OF DESIGN HYDRAULIC GRADE LINE 620

16" H=230 FT. (100 PSI)

16" H = 173 FT. (75 PSI)

CLASS B BACKFILL

TO STA. 14+73

620 510 500 490 480 470 460 450 440 430

530 520 510 500 490 480 470 460 450 440 430

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00

0+50 INSTALL 16" GATE VALVE TYPE B

12" CMP BY OTHERS

FINISHED GRADE OF ACCESS ROAD (BY OTHERS)

EXISTING GROUND LINE

18" CMP BY OTHERS

℄ 214286

FINISHED GRADE OF ACCESS ROAD (BY OTHERS)

SEE SECTION 2.9 OF THE SPECIAL PROVISIONS WITH REGARD TO SCHEDULING OF WORK IN THIS AREA

14+60 90° BEND ℄ DN 12"06" INV 521.00

14+74.00 INSTALL 3" AIR VALVE TYPE A (OMIT HOUSING)

14+75 FLANGED END OF PIPE INV. 521.23 WITH BOLTED PLYWOOD BLIND FLANGE

SEE DWG. 52-4-102.35
686+26.54 MAIN LINE SONOMA AQUEDUCT = 0+00 ANNADEL RESERVOIR 16" LINE

30.0 PERMANENT EASEMENT

DITCH

30.0 CONSTRUCTION EASEMENT

DITCH

7+16.19 HOR ∆ (PI ℄ ACCESS ROAD) DEF LT 26° 23' 30"

9+51.38 HOR ∆ DEF RT 21° 38' 31" (BC ℄ ACCESS RD)

10+31.96 HOR ∆ DEF RT 19° 55' 54"

11+12.54 HOR ∆ DEF RT 21° 38' 31" (EC ℄ ACCESS RD)

13+61.70 HOR ∆ (PI ℄ ACCESS RD) DEF RT 19° 57' 06"

14+31.45 HOR ∆ DEF RT 30° 37' 04"

STA. 14+48 2-2-1971 CATHODIC 46 WIRES

ANODES #12 WIRES

CONCRETE VAULT BY OTHERS

INSTALLED BONDING WIRES #1 STUDS #7 WIRES #2-7c AG. FLG.

ANNADEL RESERVOIR SITE

14+75.00 FLANGED END OF PIPE WITH BOLTED PLYWOOD BLIND FLANGE

TBM NAIL IN 12" OAK 46.0 RIGHT OF MAIN LINE STA 687+55 ELEV 446.59

TBM NAIL 3.0 FROM GROUND IN 20.0 HIGH STUMP, 146.0 RIGHT OF STA 12+17 ELEV 513.46

100 75 50 25 0 50
SCALE IN FEET

DELETED

Return to Pipeline Index

No.	DATE	REVISION	By

4/63 RM

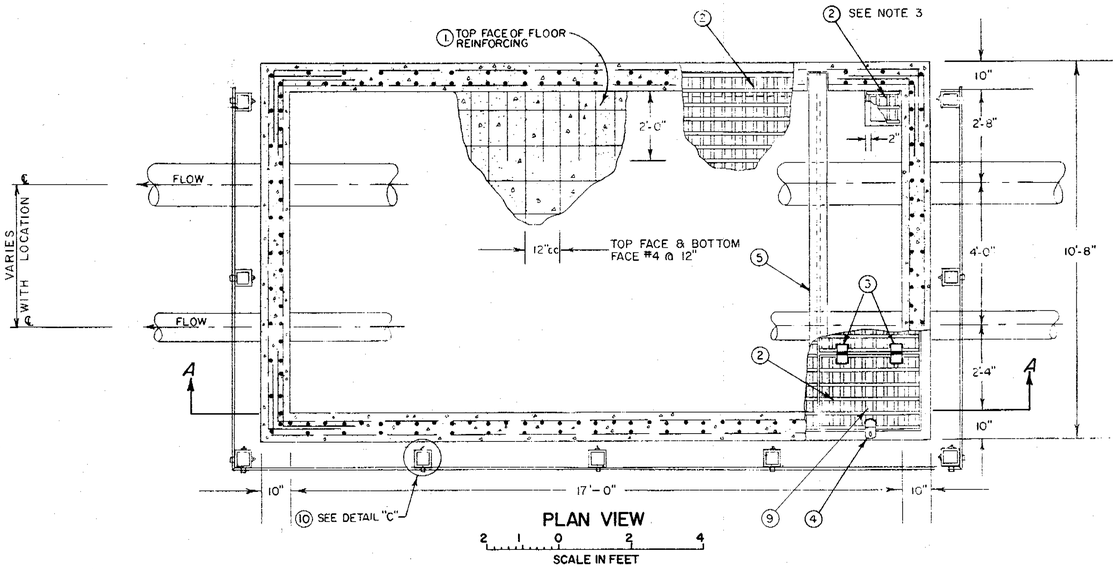
SONOMA AQUEDUCT
16" LINE TO ANNADEL RESERVOIR

SCALE: 1" = 50'
DATE: MAR 20, 1962
APPROVED Gordon W Smith CHIEF ENGINEER RE 8271
DRAWN BAUER
O.L.W RE 8557

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R G JR & JEA RE 13031
SUBMITTED O.L.W RE 8557
DRAWING NUMBER 52-4-102.46

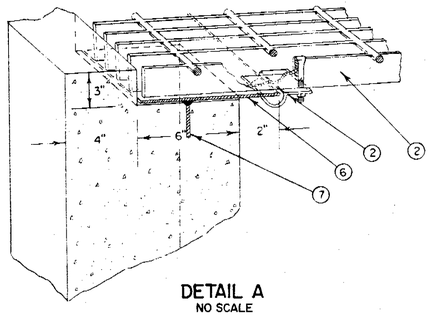
PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
AUGMENTED
BY M. LANDER
STRUCTURE NO. ATS CHK'D
SUBMITTED
PLOTTED
AUGMENT CHECKED
BY O. WM CHECKED



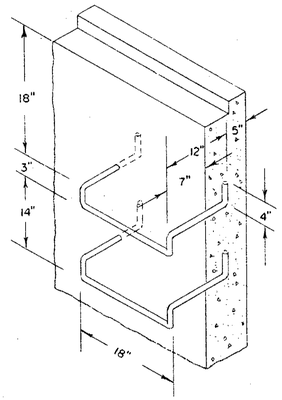
PLAN VIEW

2 1 0 2 4

SCALE IN FEET

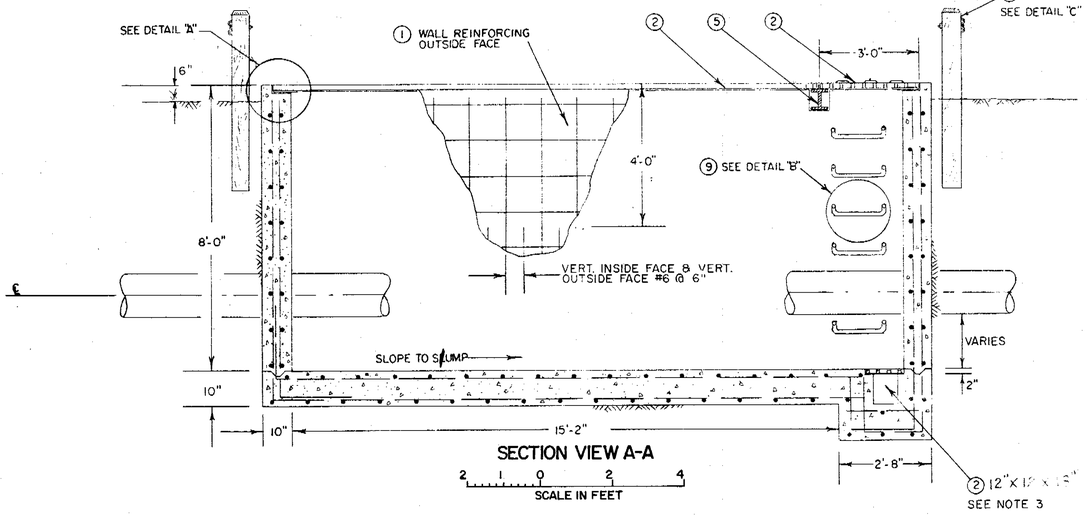


DETAIL A
NO SCALE



ISOMETRIC VIEW-DETAIL B
LADDER RUNGS
NO SCALE

NOTES:
1. HOT BEND RUNGS FROM 3/4" Ø BAR STOCK
2. HOT-DIP GALVANIZE RUNGS AFTER FABRICATION

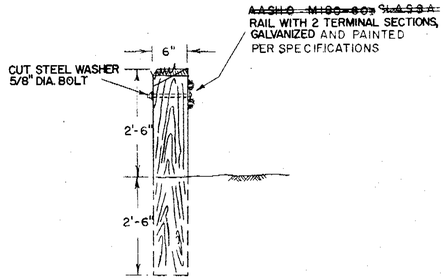


SECTION VIEW A-A

2 1 0 2 4

SCALE IN FEET

ITEM	SCHEDULE OF MATERIALS
1	21± C.Y. REINFORCED CONCRETE
2	KLEMP METAL GRATINGS TYPE KWC4 GALVANIZED 3'x10' SECTIONS, WITH TYPE H-I ANCHORS. ~~1 at SUMP COVER~~ AND ONE (1) 2'x3' HINGED HATCH COVER, OR A.E.
3	TWO (2) 6'x6' STANLEY 850 HINGES OR A.E WELDED TO HATCH COVER AND GRATING SECTION
4	ONE (1) 9" STANLEY 941 HINGE HASP, OR A.E., WELDED TO HATCH COVER AND WELD HASP STAPLE TO BEARING PLATE
5	ONE (1) 6 WF 25 BEAM, 10' LONG.
6	3/8"x 8" BEARING PLATE FOR METAL GRATINGS
7	5/8"x 4" BOLTS WELDED TO UNDERSIDE OF BEARING PLATE ON 3' cc AND CAST IN CONCRETE WALLS
8	DELETED
9	LADDER. SEE DETAIL "B"
10	40 L.F. STEEL GUARD RAIL AS REQUIRED FOR LOCATION. SEE DETAIL "C"



GUARD RAIL
DETAIL C
NO SCALE

NOTES:
1. CONSTRUCT OF 6"x6"x5' REDWOOD ~~POST ON 9' CENTERS~~

GENERAL NOTES
1. 1-1/2" COVER OVER REINFORCING STEEL IN WALLS AND 3" COVER IN FLOOR
2. BARE STEEL SHALL BE PRIMED & PAINTED PER SPECIFICATIONS
3. LOCATE SUMP & ALL PIPING AS INDICATED FOR LOCATION ON DWGS. 52-4-102.48, 52-4-102.49 & 52-4-102.50.1
4. THIS DRAWING APPLICABLE TO VERANO AVENUE AND ELDRIDGE METER STATIONS AND MONTGOMERY DRIVE SURGE SUPPRESSOR VAULT. SEE DWG. NO 52-4-102.50 FOR DETAILS OF MONTGOMERY DRIVE METER STATION VAULT

Return to Pipeline Index

No.	DATE	REVISION	By
		4/63 KIM	

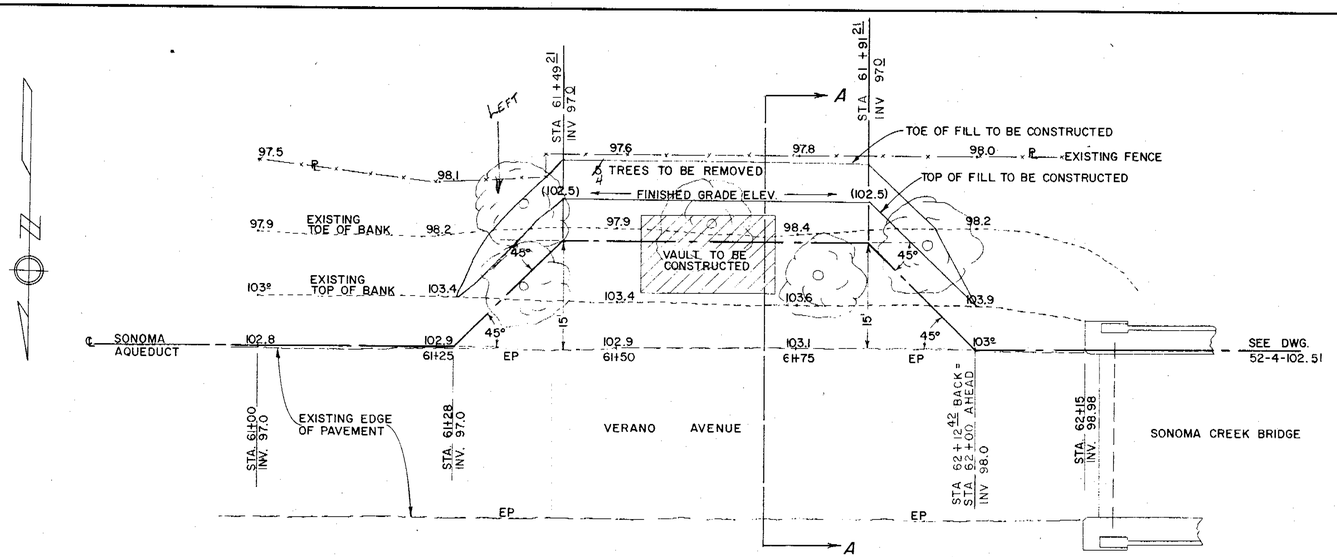
SONOMA AQUEDUCT
TYPICAL METERING STATION VAULT

SCALE: AS SHOWN	APPROVED Stephen W. Miller CHIEF ENGINEER RE 8271	DRAWN KIM - RJM
DATE: MAR. 1, 1962		CHECKED G.R.S. RE 10702

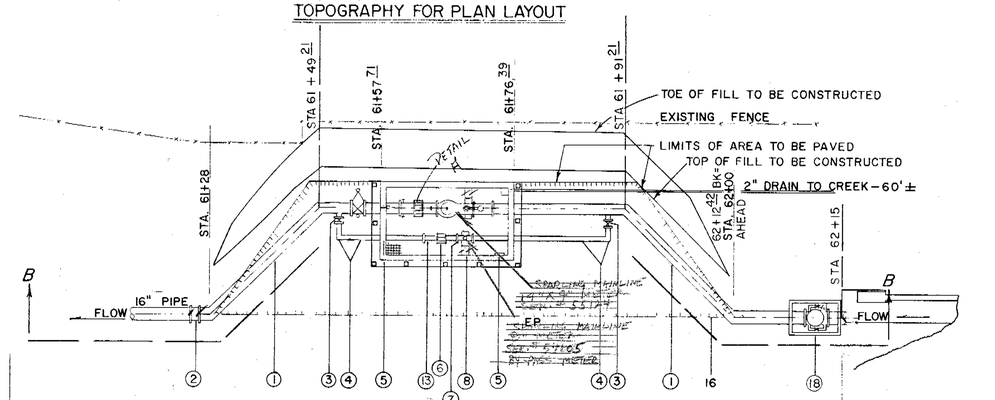
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	SUBMITTED	DRAWING NUMBER
G.R.S. RE 10702	O.L.W. RE 8557	52-4-102.47

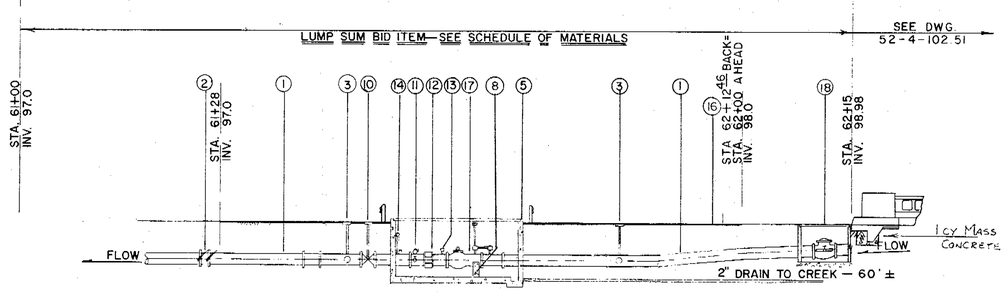
PRINTED ON DIEPO NO. 1000H CLEARPRINT



TOPOGRAPHY FOR PLAN LAYOUT



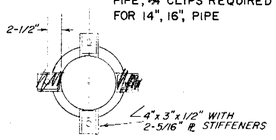
PLAN VIEW

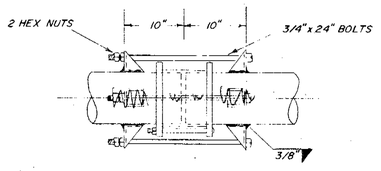


SECTION B-B

NOTE

2 CLIPS REQUIRED FOR 8" PIPE, 4 CLIPS REQUIRED FOR 14", 16", PIPE





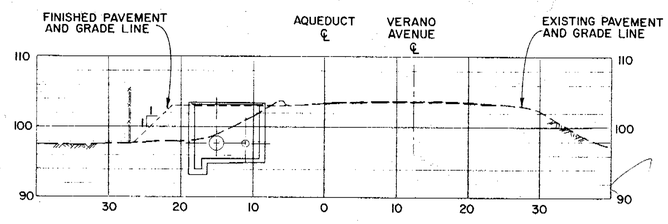
DETAIL A

JOINT HARNESS WITH DRESSER COUPLING

NO SCALE

NOTE

CONSTRUCT JOINT HARNESS FOR DRESSER COUPLINGS ONLY IF PIPELINE IS FILLED BEFORE CONCRETE VAULT AND CONCRETE PEDESTALS HAVE 7 DAY CURE.



SECTION A-A
STA. 61+75
APPROXIMATELY TYPICAL

NOTE

FILL AND COMPACT PER SECTION 12 OF SPECIFICATIONS; COMPACT (CLASS A) AREA FROM STA. 61+28 TO STA. 62+00 SOUTH FROM VERANO AVENUE TO EXISTING FENCE ON A SLOPE OF 1:1 AS INDICATED. PAVE 930 SQ. FT. WITH 12" OF UNTREATED ROCK BASE CONFORMING WITH SECTION 27 OF THE SPECIFICATIONS; APPLY SC-2 PRIME COAT AND 2" ASPHALTIC CONCRETE CONFORMING WITH SECTION 16 OF THE SPECIFICATIONS.

No.	SCHEDULE OF MATERIALS
1.	14" PIPE - SCHEDULE 10, LINED AND COATED SAME AS MAIN PIPELINE
2.	14" TO 16" TAPER - SCHEDULE 20, LINED AND COATED SAME AS MAIN PIPELINE
3.	8" TURNOUT, TYPE B, WITH 8" FLANGED GATE VALVE, RENSSELAER LIST 13-A, OR APPROVED EQUAL. SEE DWG. DS-118 2 REQUIRED
4.	8" 90° ELBOWS & 8" PIPING SCH. 20 LINE & COAT SAME AS MAIN PIPELINE
5.	CONCRETE VAULT WITH GUARD RAIL, HATCH COVERS, LADDER, SUMP AND 2" DRAIN LINE. FOR DETAILS SEE DWG. 52-4-102.47. 21± C.Y. REINFORCED CONCRETE
6.	8" FLEXIBLE COUPLING, DRESSER STYLE 38, OR APPROVED EQUAL, AND A FLANGED SPOOL, SCHEDULE 20 PIPE, LINED SAME AS MAIN PIPELINE
7.	8" FLANGED METER, SPARLING CF-907 WITH REGISTER EXTENSION 953, OR APPROVED EQUAL. BRACE FOR EXTENSION.
8.	REINFORCED CONCRETE PEDESTALS (1/2 CU. YD. TOTAL FOR BOTH)
9.	DELETED
10.	14" GATE VALVE TYPE B. SEE DWG. DS-115 1 REQUIRED
11.	3 BRINE COCKS, 3/4", CRANE 814, OR APPROVED EQUAL. SEE DWG. DS-130
12.	14" FLEXIBLE COUPLING, DRESSER STYLE 38, OR APPROVED EQUAL, AND A FLANGED SPOOL, SCHEDULE 10 PIPE LINED SAME AS MAIN PIPELINE
13.	PRESSURE GAGE, 200 psi, MARSH TYPE 1, AND 1/4" GAGE COCK, CRANE 744, OR APPROVED EQUAL
14.	1" AIR VALVE. TYPICAL TO TYPE A INSTALLATION WITHOUT HOUSING. ~~BRACKET TO VAULT WALL~~. SEE DWG. DS 140
15.	DELETED
16.	INSTALL PAVED DRIVEWAY. SEE NOTE ABOVE. 930 SQ. FT. PAVING
17.	14"X4" (cf 126) COMPOUND MAIN METER W/ REGISTER EXTENSION TYPE 246 CD, METER REGISTER TYPE 245 BB SPARLING, OR APPROVED EQUAL. BRACE FOR EXTENSION.
18.	14" FLANGED SWING CHECK VALVE, RUBBER FACED WITH DOUBLE SPRING & LEVER DOUBLE 2" BY-PASS DRILLED & TAPPED EACH SIDE. 175 psi WORKING PRESSURE. M&H OR APPROVED EQUAL. PRE-CAST PIT NO 1R16 & EXTENSIONS WITH 2 PIECE STEEL TRAFFIC COVER NO 11AA-6, FORNI OR APPROVED EQUAL. PLACE ON 5 CUBIC FEET OF DRAIN ROCK.

NOTE

METER STATION PIPING SHALL BE LINED & COATED THE SAME AS MAIN PIPELINE BARE STEEL SHALL BE PRIMED AND PAINTED PER SPECIFICATIONS.

10 5 0 5 10 20

SCALE IN FEET

Return to Pipeline Index

SN2ME781 10" (STA. 61+70)

No.	DATE	REVISION	By

4/63
KIM

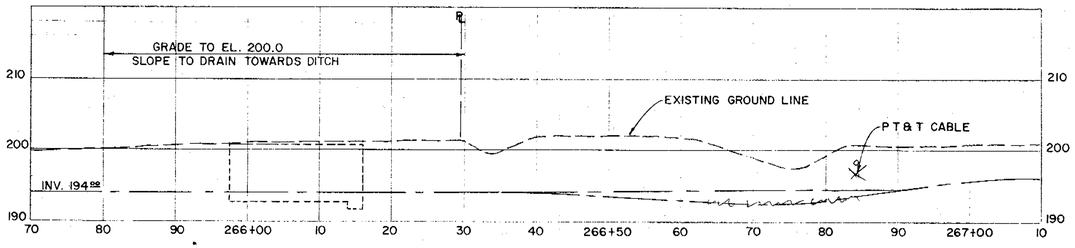
SONOMA AQUEDUCT
VERANO AVENUE METERING STATION

SCALE: AS SHOWN | APPROVED Jordan W Smith CHIEF ENGINEER RE 8271 | DRAWN KW BKMc
DATE: 2/13/1962 | CHECKED GRS RE 10702

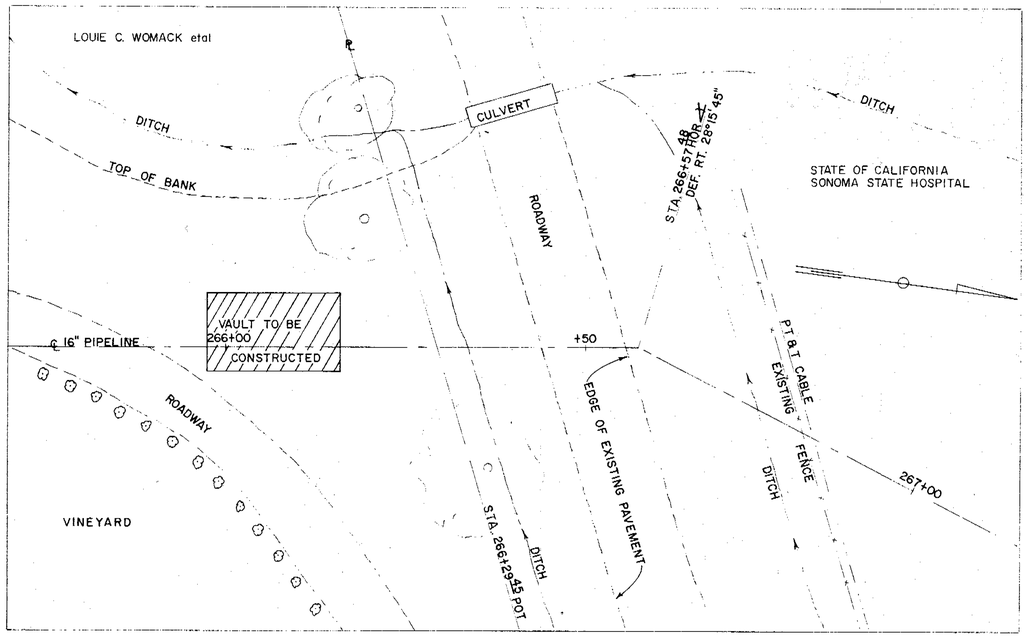
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED GRS RE 10702 | SUBMITTED OLW RE 8557 | DRAWING NUMBER 52-4-102 48

PRINTED ON DIEPO NO. 1000H CLEARPRINT



PROFILE



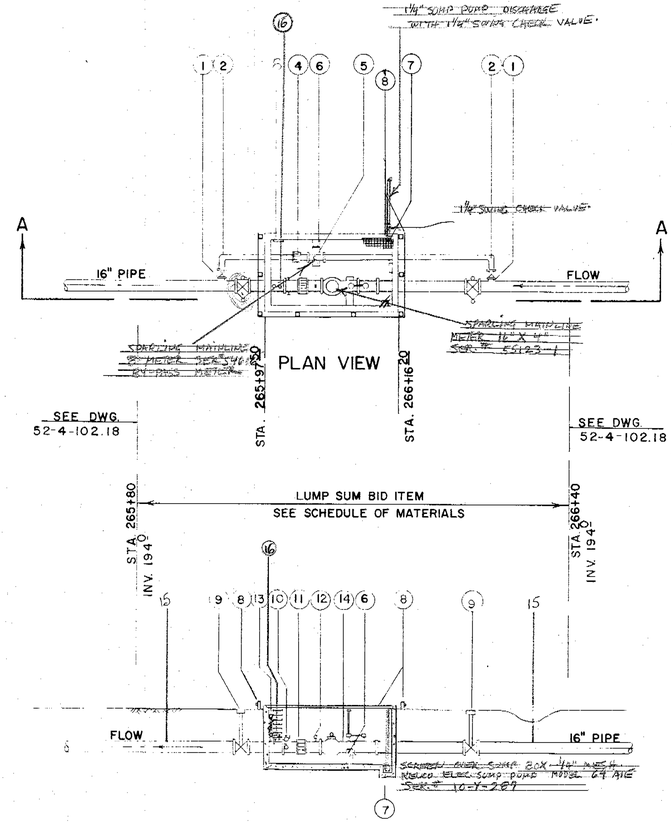
TOPOGRAPHY FOR PLAN LAYOUT

NOTES—

~~CONSTRUCT JOINT HARNESS FOR 8" AND 16" DRESSER COUPLINGS PER DETAIL A ON DWG 52-4-102.48 ONLY IF PIPELINE IS FILLED BEFORE CONCRETE VAULT AND PEDISTALS HAVE A 7 DAY CURE.~~

SN2ME691 16" (STA. 266+11)
SN2ME692 8"

Return to Pipeline Index



SECTION A-A

(16) ~~2" TAP WITH 2" GATE VALVE FOR METER TESTING. DELETED BY DEPT. ON 1-15-63~~ 15. 16" PIPE, LINED & COATED. 45° ± REQ'D

SCHEDULE OF MATERIALS

1. 8" TURNOUT, TYPE B, WITH 8" FLANGED GATE VALVE, RENSSELAER, LIST 13-A, OR APPROVED EQUAL. SEE DWG. DS-118. 2 REQD.
2. 8" ELBOWS—90° AND 8" PIPING LINED AND COATED SAME AS MAIN PIPELINE
4. 8" FLEXIBLE COUPLING, DRESSER STYLE 38, OR APPROVED EQUAL, AND FLANGED SPOOL, SCHEDULE 20 PIPE LINED SAME AS MAIN PIPELINE
5. 8" FLANGED METER, SPARLING CF-907 WITH REGISTER EXTENSION 953, OR APPROVED EQUAL. BRACE FOR EXTENSION.
6. REINFORCED CONCRETE PEDESTALS ~~(1½ CU.YD. TOTAL CONCRETE FOR BOTH)~~
7. ~~AUTOMATIC CELLAR DRAINER INJECTION TYPE PENBERTHY MODEL 2R OR A.E. & MISCELLANEOUS~~ PIPING. SEE DRAWING NO. 52-4-102.50 FOR INSTALLATION DETAILS. ~~10-26-62 DELETED. SEE SUMP PUMP ATTACHMENT CO MODEL 64 AIS SER. NO. 10Y 289~~
8. VAULT WITH GUARDRAIL, HATCH COVERS, LADDER, AND SUMP CONSTRUCT PER DWG. 52-4-102.47 21 ± CU. YDS. REINF. CONCRETE
9. 16" GATE VALVE, TYPE B, SEE DWG. DS-115. 2 REQD.
10. 3 BRINE COCKS, 3/4", CRANE 814, OR APPROVED EQUAL. SEE DWG. DS-130.
11. 16" FLEXIBLE COUPLING, DRESSER STYLE 38 OR APPROVED EQUAL, AND FLANGED SPOOL, SCHEDULE 10 PIPE LINED SAME AS MAIN PIPE LINE
12. PRESSURE GAUGE, 200 psi, MARSH TYPE I, AND 1/4" GAUGE COCK, CRANE 744 OR APPROVED EQUAL.
13. 1" AIR VALVE TYPICAL TO TYPE B INSTALLATION WITHOUT HOUSING. ~~BRACKET TO VAULT WALL~~ — SEE DWG. DS 140
14. 16"X 4" (cf126) COMPOUND MAIN METER W/REGISTER EXTENSION TYPE 246 CD, METER REGISTER TYPE 245 BB—SPARLING, OR APPROVED EQUAL. BRACE FOR EXTENSION.

NOTES—

1. METER STATION PIPING SHALL BE LINED & COATED THE SAME AS MAIN PIPELINE. BARE STEEL SHALL BE PRIMED & PAINTED PER SPECIFICATIONS.

10 5 0 5 10 20
SCALE IN FEET

No.	DATE	REVISION	By
		4/63	
		KIM	

SONOMA AQUEDUCT
ELDRIDGE METER STATION

SCALE: AS SHOWN | APPROVED Gordon W Wills, CHIEF ENGINEER RE 8271 | DRAWN KIM SKMc | CHECKED GRS RE 10708
DATE: 2/19/1962

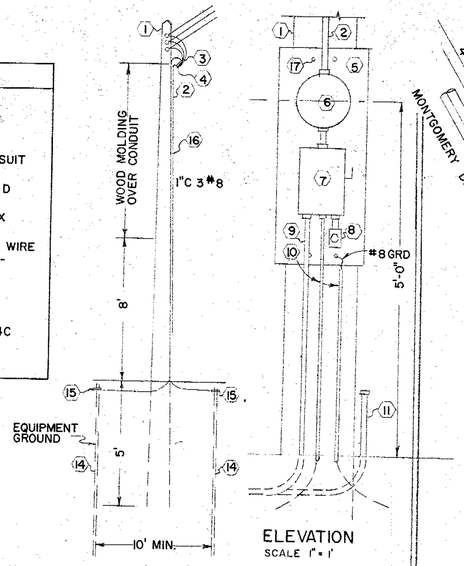
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED GRS RE 10708 | SUBMITTED OLW RE 8557 | DRAWING NUMBER 52-4-102 49

PRINTED ON DIEPC CLEARPRINT

LIST OF MATERIALS

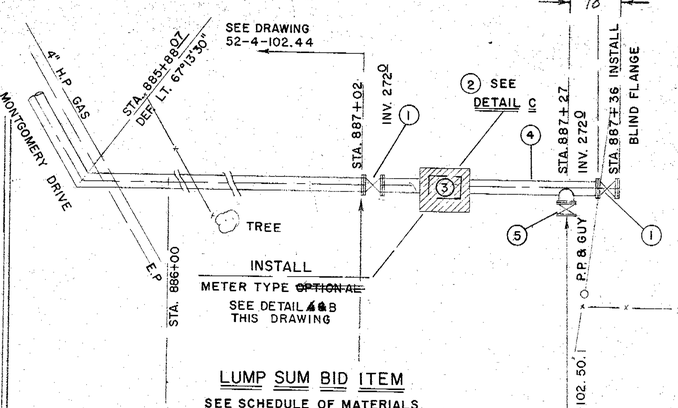
1.	1 25' CLASS 3 CREOSOTED POLE
2.	1" CONDUIT 3 #8 T.W.
3.	#8 AWG SERVICE LOOP
4.	C.H. SERVICE HEAD – CATALOG NO. 385
5.	3/16 GALVANIZED PLATE 15"x36". DRILL TO SUIT
6.	120/240 VOLT METER SOCKET
7.	30-AMP 2-POLE SN ENTRANCE SW. SQUARE D CATALOG NO. 5031I.
8.	H & H RECEPTACLE. CAT. XT 7582 IN F.S. BOX
9.	1/2" CONDUIT. 2 NO. 12 TO TRANSMITTER
10.	1/2" CONDUIT. 1 NO. 8 BARE COPPER GROUND WIRE
11.	1" CONDUIT TELEPHONE, NO WIRE, TO TRANSMITTER. STUB UP AS REQUIRED BY PT&T CO.
14.	HUBBARD GROUND RODS. CAT. 9450.
15.	BURNDY GROUND CONNECTIONS. CAT. GR 644C
16.	WOOD MOLDING OVER CONDUIT ABOVE 8'-0"
17.	LAG BOLTS 3/8"x 4"



POLE DETAIL
SCALE 1/4" = 1'

ELECTRICAL DETAIL

ELEVATION
SCALE 1" = 1'



LUMP SUM BID ITEM

SEE SCHEDULE OF MATERIALS
THIS DRAWING AND DRAWING
52-4-102.50.1

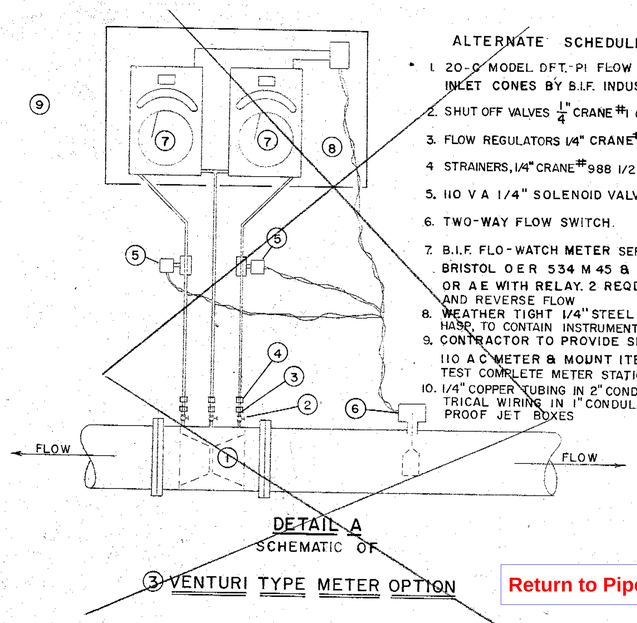
LOCATION PLAN

10 0 5 10
SCALE IN FEET

GENERAL NOTES:
1. BARE STEEL SHALL BE PRIMED & PAINTED PER SPECIFICATIONS.
2. THE CONTRACTOR SHALL BID A LUMP SUM FOR FURNISHING & INSTALLING ALL PIPING AND APPURTENANCES SHOWN ON DRAWINGS 52-4-102.50 AND 52-4-102.50.1, INCLUDING THE METER STATION EQUIPMENT SHOWN ON DRAWING 52-4-102.50 AND INCLUDING THE SURGE SUPPRESSOR STATION EQUIPMENT AND PIPING SHOWN ON DRAWING 52-4-102.50.1
3. FROM STA. 887+02 USE CLASS B BACKFILL. SEE DRAWING DS-114

ALTERNATE SCHEDULE OF ITEMS

1. 20-C MODEL DFT.-PI FLOW TUBES WITH TWIN INLET CONES BY B.I.F. INDUSTRIES INC. OR AE.
2. SHUT OFF VALVES 1/4" CRANE #1 OR A.E. 3 REQD.
3. FLOW REGULATORS 1/4" CRANE #85 OR AE. 3 REQD.
4. STRAINERS, 1/4" CRANE #988 1/2 OR AE 3 REQD.
5. 110 V A 1/4" SOLENOID VALVE. 2 REQD.
6. TWO-WAY FLOW SWITCH. 1 REQD.
7. B.I.F. FLO-WATCH METER SERIES 301 OR BRISTOL OER 534 M 45 & 1 M.I.D. 500-15 OR A E WITH RELAY. 2 REQD. FOR FORWARD AND REVERSE FLOW
8. WEATHER TIGHT 1/4" STEEL BOX. AND LOCK HASP, TO CONTAIN INSTRUMENTATION. 1 REQD
9. CONTRACTOR TO PROVIDE SERVICE POLE & 110 A C METER & MOUNT ITEMS 7 & 8 AND TEST COMPLETE METER STATION
10. 1/4" COPPER TUBING IN 2" CONDULET. ALL ELECTRICAL WIRING IN 1" CONDULET AND WATER-PROOF JET BOXES



DETAIL A
SCHEMATIC OF
(3) VENTURI TYPE METER OPTION

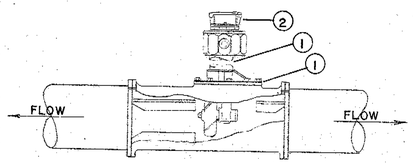
SCALE: NONE

SN1ME341 20"

NOTE: SEE SPECIAL PROVISIONS: PARAGRAPH 2.28

ALTERNATE SCHEDULE OF ITEMS

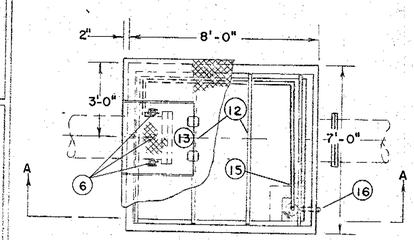
1. 20" PROPELLER METER, EITHER SPARLING MODEL 907 WITH TYPE 953 REGISTER EXTENSION AND 20" DUMMY PLATE.
   OR AE 150 PSI SERVICE., REGISTER EXTENSION BRACED WITH EXTERNAL SUPPORTS
2. INDICATOR - TOTALIZER FORWARD OR REVERSE FLOW SPARLING MODEL C F 244 OR A.E.



DETAIL B
SCHEMATIC OF
(3) PROPELLER TYPE METER OPTION
SCALE NONE

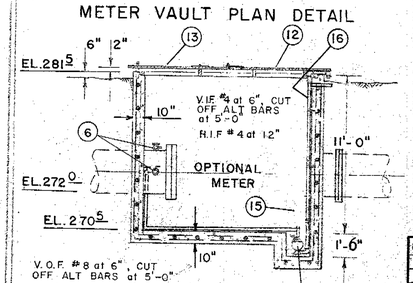
(STA. 887+24)

NOTE: SEE SPECIAL PROVISIONS: PARAGRAPH 2.28
CAST STEEL METAL TUBE REQUIRED FOR ANCHORAGE.



DETAIL C

METER VAULT PLAN DETAIL



SECTION A-A

SCALE: NONE

NOTE: SEE SCHEDULE OF MATERIALS

SCHEDULE OF MATERIALS

1.	20" GATE VALVE, TYPE B SEE DWG. DS.115 - 2 REQD.
2.	METER VAULT- 13± C.Y. REINFORCED CONCRETE SEE DETAIL C
3.	METER: SEE DETAIL A & B OPTIONS & SCHEDULE OF ITEMS FOR EACH. 1 REQD.
4.	20" PIPE, LINED & COATED SAME AS MAIN PIPELINE. 88'± REQUIRED.
5.	12" TURNOUT TYPE B SEE DWGS DS 118 AND SECTION AA. DWG. 52-4-102.50.1 FOR DETAILS. 1 REQ'D.
6.	BRINE COCKS, 3/4", CRANE 814 OR APPROVED EQUAL. 3 REQUIRED. SEE DWG. DS 130.
7.	PRESSURE TAP EXISTING 20" PIPELINE AND INSTALL ONE 12" TURNOUT SEE DWG. DS 118
8.	3'x3'x2' CONCRETE ANCHOR.
9.	DELETED
10.	DELETED
11.	DELETED
12.	3/16" DIAMOND PLATE VAULT COVER WELD 4 PIECES 3"x11/2" ⌐ 6 AS SHOWN TO PROVIDE 2" CLEARANCE
13.	3'x3' HATCH WITH (2) 6"x6" STANLEY #50 HINGES WELDED TO VAULT COVER ANCHOR A HASP STAPLE SECURELY IN VAULT CONCRETE AND WELD A 9" STANLEY #941 HINGE HASP OR A.E. TO HATCH TO PROVIDE FOR DIST. PADLOCK
14.	AUTOMATIC CELLER DRAINER, INJECTION TYPE, PENBERTHY MODEL 2-R OR AE 2 REQ'D.
15.	3/4" OUTLET, GALV. PIPING, ELBOW, NIPPLE, UNION AND BRASS GATE VALVE. PROVIDE ~~PIPE WALL HANGER~~. 2 ASSEMBLIES REQ'D.
16.	1-1/4" GALVANIZED PIPING, ~~3 ELBOWS, 2 NIPPLES, AND 1 UNION. PROVIDE PIPE WALL HANGERS~~. 2 ASSEMBLIES REQ'D.

CONTINUED ON DWG 52-4-102.50.1

AS BUILT
Date 3/63
KJM

No.	DATE	REVISION	By

SONOMA AQUEDUCT
MONTGOMERY DR. METER STATION & INTERIM CONNECTION TO SANTA ROSA CITY SYSTEM

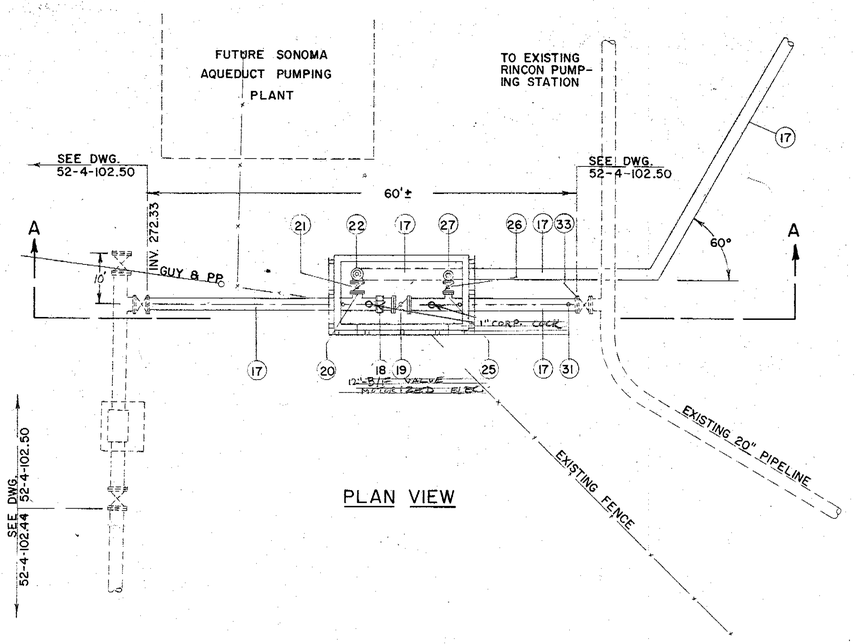
SCALE: AS SHOWN	APPROVED Gordon W. Muller CHIEF ENGINEER R.E. 8271	DRAWN KJM
DATE: 4/1/1962		CHECKED GRS R.E. 10702

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

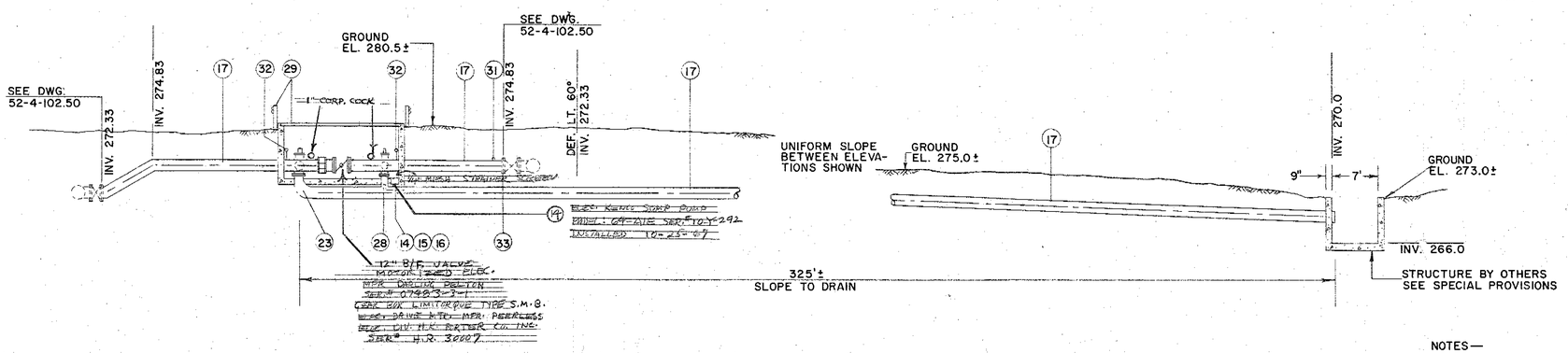
DESIGNED	SUBMITTED	DRAWING NUMBER
GRS R.E. 10702	O.L.W. R.E. 8557	52-4-102.50

Return to Pipeline Index

PRINTED ON DIEPO NO. 1000H CLEARPRINT



PLAN VIEW



SECTION A-A

SCHEDULE OF MATERIALS
CONTINUED FROM DRAWING 52-4-102.50

17	12" PIPE, , LINED & COATED SAME AS MAIN PIPELINE. WELDED OR FLANGED JOINTS. 385'± REQUIRED.
18	12" FLEXIBLE COUPLING, DRESSER STYLE 38 OR A.E. & FLANGED SPOOL, SCHEDULE 20. PIPE LINED SAME A MAIN PIPELINE. 1 REQUIRED ~~WITH JOINT HARNESS. SEE DETAIL "A", DWG. 52-4-102.48.~~
19	12" BUTTERFLY VALVE. SEE SPECIAL PROVISIONS. 1 REQUIRED.
20	8" TURNOUT. SEE DWG. DS 130.
21	8" ~~BUTTERFLY~~ GATE VALVE. SEE SPECIAL PROVISIONS. 1 REQUIRED.
22	8" SURGE SUPPRESSOR VALVE, PELTON OR A.E., 150psi. 1 REQUIRED.
23	8" TO 12" REDUCING 90° ELBOW, SCHEDULE 20 PIPE, LINED AND COATED SAME AS MAIN PIPELINE. FLANGE 8" END AND FABRICATE FOR FIELD CLOSURE. 1 REQUIRED.
24	~~MASS CONCRETE ANCHOR. 1/2 CU/YD REQUIRED.~~
25	6" TURNOUT. SEE DWG. DS 130.
26	6" ~~BUTTERFLY~~ GATE VALVE. SEE SPECIAL PROVISIONS. 1 REQUIRED.
27	6" SURGE SUPPRESSOR VALVE, PELTON OR A.E., 150psi. 1 REQUIRED.
28	6" FLANGED CONNECTION TO 12" DISCHARGE PIPE, LINED AND COATED SAME AS MAIN PIPELINE. 1 REQUIRED.
29	VAULT WITH GUARDRAIL, HATCH COVERS, LADDER AND SUMP. CONSTRUCT PER DWG. 52-4-102.47. 21± CU/YD REQUIRED.
30	~~REINFORCED CONCRETE PEDESTAL. 1/2 CU/YD REQUIRED.~~
31	2" THREADED OUTLET, R-P & C CORPORATION COCK. ½ PLUG SEE DWG. DS 130.
32	2" AIR VALVE, RENSSELAER, TYPICAL TO TYPE "B" INSTALLATION WITHOUT HOUSING. ~~BRACKET TO VAULT WALL~~. 2 ASSEMBLIES REQUIRED.
33	FLANGED INSULATION JOINT, MALONEY TYPE "E" OR A.E. SEE DWG. DS 129. 1 REQUIRED.

AS BUILT
Date 3/63
By KIM

NOTES—

1. BARE STEEL SHALL BE PRIMED AND PAINTED PER SPECIFICATIONS.
2. THE CONTRACTOR SHALL BID A LUMP SUM FOR FURNISHING AND INSTALLING ALL PIPING AND APPURTENANCES SHOWN ON DWGS. 52-4-102.50 & 52-4-102.50.1, INCLUDING THE METER STATION EQUIPMENT SHOWN ON DWG. 52-4-102.50, AND INCLUDING THE SURGE SUPPRESSOR STATION EQUIPMENT AND PIPING SHOWN ON DWG. 52-4-102.50.1.
3. USE CLASS B BACKFILL. SEE DWG. DS 114.
4. CONTRACTOR MAY REMOVE AND DISPOSE OF ANY EXISTING FENCES DEEMED NECESSARY FOR HIS OPERATIONS IN THIS AREA.

10 5 0 5 10 20
SCALE IN FEET

Return to Pipeline Index

No.	DATE	REVISION	By

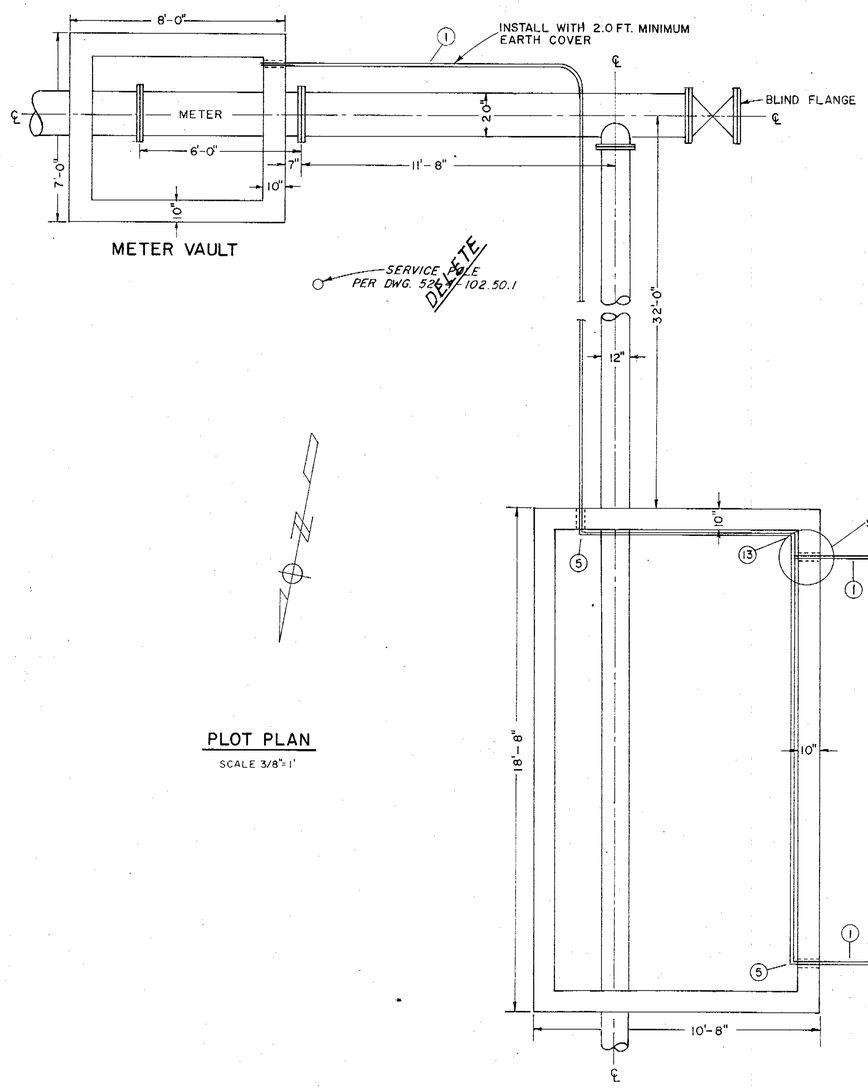
SONOMA AQUEDUCT
MONTGOMERY DR. SURGE SUPPRESSOR PIPING AND CONNECTIONS TO SANTA ROSA CITY SYSTEM

SCALE: AS SHOWN	APPROVED Gordon W Mueller CHIEF ENGINEER RE 8271	DRAWN KIM SKMc	
DATE: 4/12/1962		CHECKED GRS RE10702	

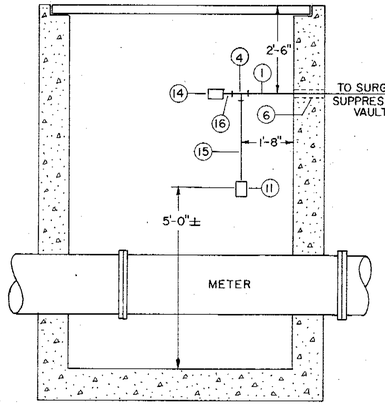
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	SUBMITTED	DRAWING NUMBER
GRS RE 10702	OLW RE 8557	52-4-102.50.1

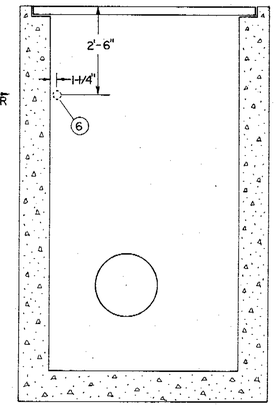
PRINTED ON DIEPO NO. 1000N CLEARPRINT



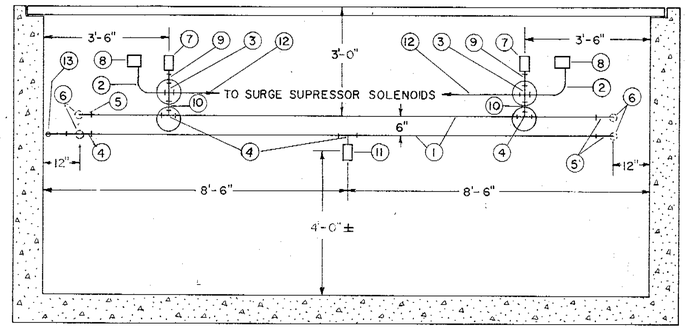
PLOT PLAN
SCALE 3/8"=1'



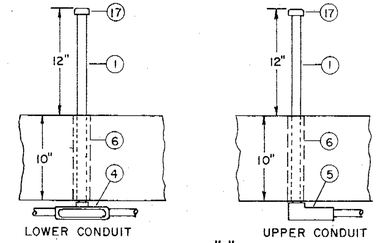
ELEVATION SOUTH WALL
METER VAULT—FACING SOUTH
SCALE 1/2"=1'



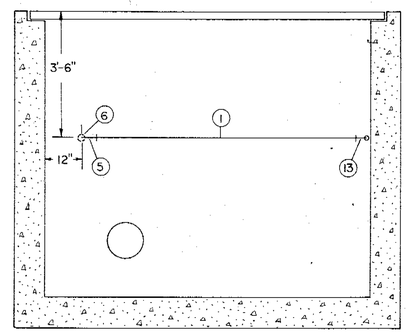
ELEVATION WEST WALL
METER VAULT—FACING WEST
SCALE 1/2"=1'



ELEVATION WEST WALL
SURGE SUPPRESSOR VAULT
FACING WEST
SCALE 1/2"=1'



DETAIL "A"
SURGE SUPPRESSOR VAULT
PLAN
SCALE 1-1/2"=1'



ELEVATION SOUTH WALL
SURGE SUPPRESSOR VAULT
FACING SOUTH
SCALE 1/2"=1'

NOTES

1- USE APPROVED CLAMP BACKS AND MALLEABLE HALF PIPE STRAPS AT ALL CONDUIT SUPPORTS.

2- CONDULETS & SWITCHES TO HAVE A MINIMUM CLEARANCE OF 1/4" FROM SUPPORTING STRUCTURE.

3- WHERE REDUCING BUSHINGS ARE REQUIRED USE ONLY APPROVED CONDUIT REDUCERS.

4- ERICKSON COUPLINGS APPROVED WHERE REQUIRED.

5- USE ONLY APPROVED CONNECTORS ON ALL LIQUID-TIGHT FLEXIBLE CONDUIT TERMINATIONS.

6- CONDUIT INSTALLED THRU 2" SLEEVES TO BE WATER TIGHT BETWEEN CONDUIT & SLEEVE. CAULK WITH OAKUM AND COVER WITH MASTIC.

SCHEDULE OF MATERIALS

1- 1" CONDUIT RIGID GALVANIZED HOT DIP
2- 1/2" CONDUIT FLEX SEAL-TITE TYPE U.A.
3- 1" CONDULET-X3 W/ GASKET & BLANK COVER
4- 1" CONDULET-T3 W/ GASKET & BLANK COVER
5- 1" CONDULET-LB3 W/ GASKET & BLANK COVER
6- 2" SLEEVES THRU WALLS
7- WEATHERPROOF BY-PASS SWITCH
8- WEATHERPROOF PRESSURE SWITCH
9- 1/2" x 3" CONDUIT NIPPLE
10- 1" x 3" CONDUIT NIPPLE
11- CONDULET-FS-1 W/ HUBBELL #73106-4WTL-20A RECEPTACLE & DS-10G SURFACE COVER
12- CONDUIT-3/4" FLEX SEAL-TITE TYPE U.A.
13- ELBOW-1"-90° RIGID GALVANIZED
14- CONDULET FSCC-31 W/ DSG-100 SURFACE COVER
15- CONDUIT-1/2" RIGID GALVANIZED
16- CONDUIT NIPPLE-1" x 4"
17- 1" PIPE CAP

3/63
KJT

SN1ME341 20" (STA. 887+24)

Return to Pipeline Index

No.	DATE	REVISION	By
1	1-28-63	REVISED	RHT
2	1-30-63	REVISED	RHT

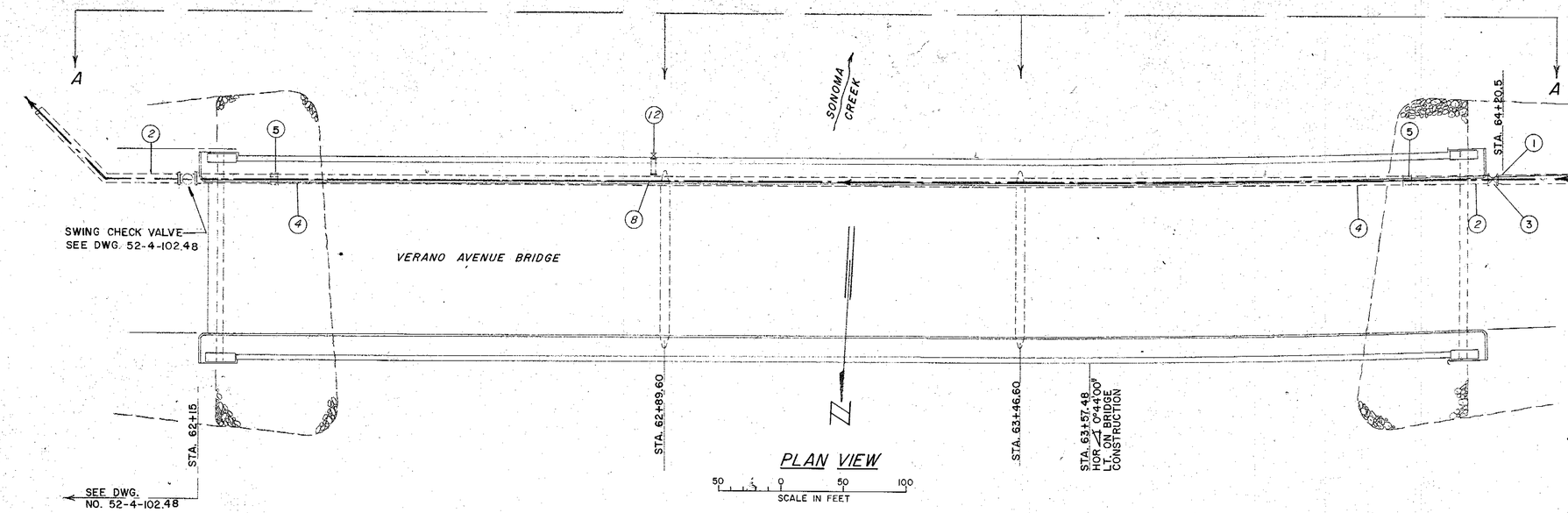
SONOMA AQUEDUCT
ELECTRICAL SYSTEM
MONTGOMERY DR. METER & SURGE STATIONS

SCALE: AS SHOWN | APPROVED Jordan W Mueller CHIEF ENGINEER | DRAWN R.H.T.
DATE: JAN. 24, 1963 | CHECKED JEA

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

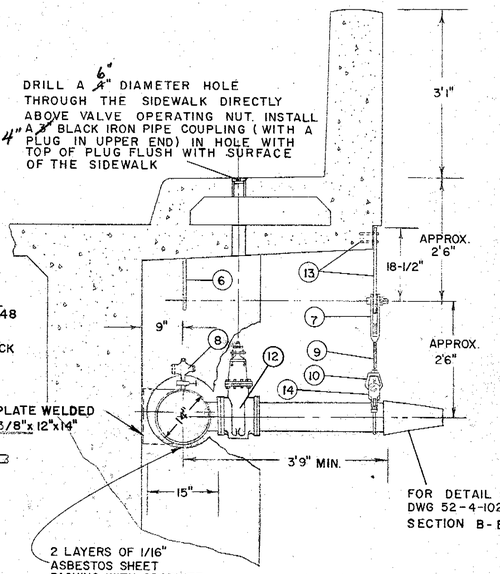
DESIGNED P.F. WILSON | SUBMITTED OSW | DRAWING NUMBER 52-4-102.50.2

PRINTED ON DIEPO NO. 1000M CLEARPRINT



PLAN VIEW

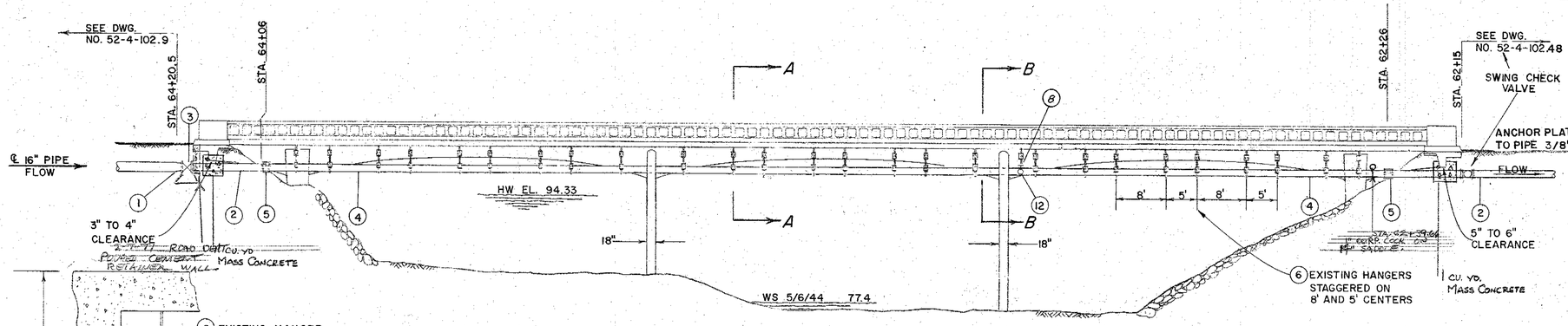
SCALE IN FEET 50 0 50 100



SECTION B-B

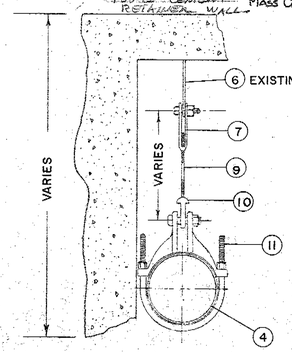
EXISTING PIPE HOLE DETAIL IN CENTER PIERS AND 6" BLOW-OFF TO BE INSTALLED

NO SCALE



VIEW A-A LOOKING NORTH

SCALE IN FEET 50 0 50 100



SECTION A-A

NO SCALE

CLAMP AND HANGER DETAILS

SCHEDULE OF MATERIALS

1. 16" TO 14" TAPER LINED AND COATED AS PER MAIN LINE PIPING.	9. 5/8" MACHINE THREADED ROD, GRINNEL CAT. FIG. NO. 253 OR APPROVED EQUAL, THREADED RIGHT AND LEFT HAND A FULL 4" ON EACH END. 26 REQUIRED, 9" LONG AND 1 REQUIRED 13" LONG. SAW IN FIELD IF NECESSARY.
2. 14" PIPE LINED AND COATED AS PER MAIN LINE PIPING. SCHEDULE 10	10. WELDLESS EYE NUT, SIZE NO. 2, GRINNELL CAT. FIG. NO. 290 OR APPROVED EQUAL., TAPPED FOR 5/8" ROD. 27 REQUIRED.
3. 14" GATE VALVE, TYPE B-SEE DWG. DS 115.	11. FORGED ALLOY STEEL CLAMP FOR 14" O.D. PIPE, GRINNELL CAT. FIG. NO. 224 WITH STANDARD U-BOLT, FIG. NO. 137 OR APPROVED EQUAL.
4. 14" PIPE, SCHEDULE 20, 180' GALVANIZED AND WELDED. OMIT LINING	12. 6" TURNOUT AND 6" PIPE EXTENSION WITH 6" VALVE, RENSSELAER LIST 13-A OR APPROVED EQUAL.
5. 14" FLEXIBLE COUPLING, DRESSER STYLE 39 GALVANIZED OR A.E TWO REQUIRED. LEAVE 1/2" SPACE BETWEEN PIPE ENDS.	13. 1/2"x 2"x 18-1/2" GALVANIZED HANGER WITH 3/4" HOLE 1-1/2" FROM END. ANCHOR TO CONCRETE BEAM WITH 2 PHILLIPS RED-HEAD SNAP-OFF END FASTENERS, 1/4" WITH 7/16" BOLT. CAT NO. S-14A OR APPROVED EQUAL.
6. 1/2"x 2"x 12" EXISTING GALVANIZED HANGER WITH 3/4" HOLE 1-1/2" FROM END. HANGERS ARE AT STAGGERED INTERVALS OF 5' AND 8' AND 5' EACH SIDE OF CENTER PIERS.	14. FORGED ALLOY STEEL PIPE CLAMP FOR 6" O.D. PIPE, GRINNELL CAT. FIG. NO. 224 WITH STANDARD U-BOLT FIG. 137 OR APPROVED EQUAL. 1 REQUIRED.
7. CLEVIS, FORGED STEEL, GRINNEL CAT. NO. 299 OR APPROVED EQUAL. SIZE NO. 2-1/2, TAP 5/8", 3/4" HOLE AND 5/8" PIN, 3/4" GRIP. 27 REQUIRED.	
8. 1/2" AIR RELEASE VALVE, APCO 55 OR AE WITH (2) SHORT NIPPLES AND (1) 1/2" BRASS GATE VALVE, CRANE #1 OR A.E.	

NOTES—

1. THE CONTRACTOR SHALL BID A LUMP SUM FOR FURNISHING, WELDING AND INSTALLING ALL PIPING AND APPURTENANCES FROM STA. 62+15 TO STA. 64+20.5
2. ALL PIPING AND APPURTENANCES FROM STA. 62+26 TO STA. 64+06 SHALL BE HOT DOUBLE-DIPPED GALVANIZED. WELDS SHALL BE CLEANED AND PAINTED WITH 3 COATS INERTOL (ZINC DUST) PRIMER 632 ON CLEAN METAL SURFACE AS PER MANUFACTURERS RECOMMENDATIONS

Return to Pipeline Index

No.	DATE	REVISION	By

4/63 KIM

SONOMA AQUEDUCT
VERANO AVENUE BRIDGE DETAILS

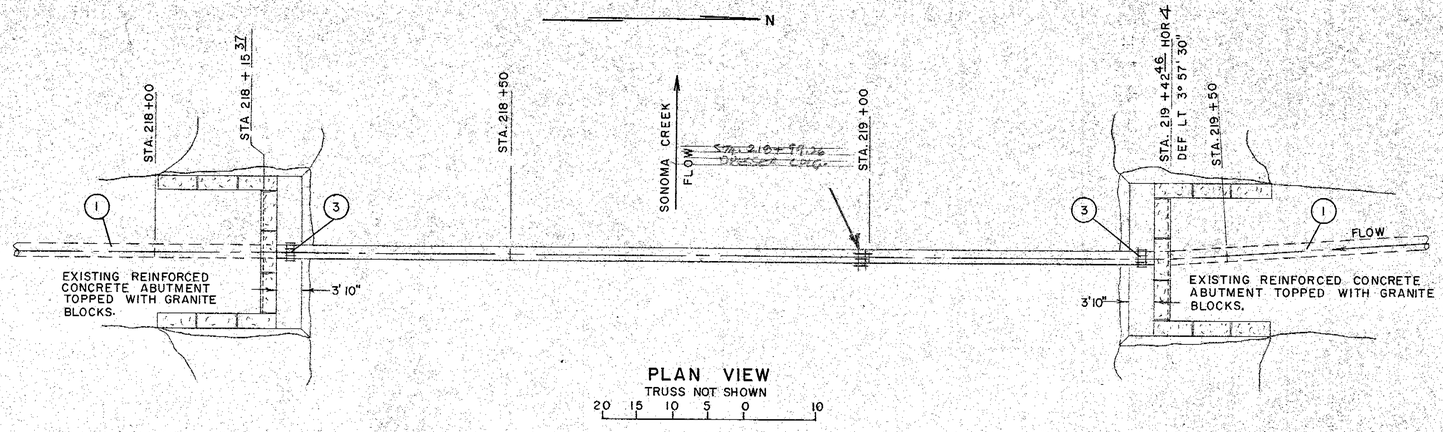
SCALE: AS SHOWN
DATE: 3/9/1962
APPROVED Gordon W. Mueller CHIEF ENGINEER RE 8271
DRAWN KIM SKMS
CHECKED GRS RE 10702

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

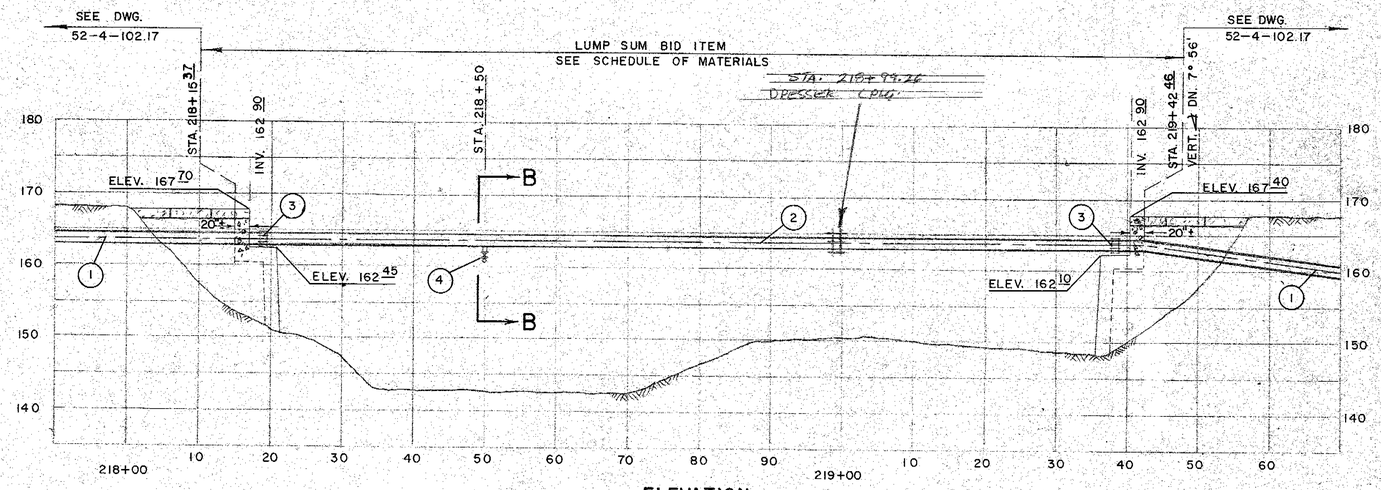
DESIGNED GRS RE 10702
SUBMITTED O.L.W. RE 8557
DRAWING NUMBER 52-4-102.51

PRINTED ON DIEPO NO. 10000H CLEARPRINT

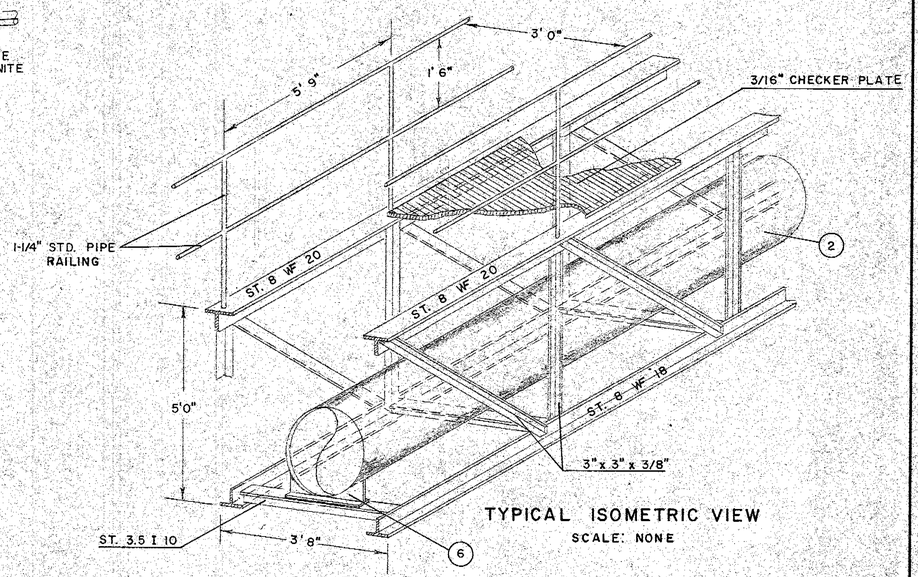
	SCHEDULE OF MATERIALS
1	16" PIPE, LINED AND COATED AS PER MAIN LINE PIPING. PROVIDE FIELD CLOSURES.
2	16" PIPE, SCHEDULE 20, WELDED, DOUBLE DIP GALVANIZED, 118 LINEAL FEET REQUIRED. UNLINED. SEE NOTE 7.
3	16" FLEXIBLE COUPLING, DRESSER STYLE 39 OR AE, 2 REQUIRED, LEAVE 3/4" SPACE. GALVANIZE.
4	6" TURNOUT, 6" GATE VALVE, RENSSELAER LIST 13A OR AE WITH 6" TEE, (2) 6" PIPE EXTENSIONS AND DIFUSERS.
5	BOTTOM BEARING WARREN TRUSS, 3/16" CHECKER PLATE WALKWAY AND 1-1/4" PIPE HAND RAILING, SOUTH END. BOLT THRU 6"x6"x1/2" LEVEL BEARING PLATE WITH 1"x8" STANDARD STEEL BOLTS, 2 REQUIRED. NORTH END – PLACE TRUSS ON A 4"x3'-8" DOUBLE EXTRA STRONG STEEL PIPE WITH 4 GUIDES. SLOT BOLT HOLES 3" AND ANCHOR TO CONCRETE ABUTMENT WITH 12"x1" STANDARD STEEL BOLTS AND WASHERS, 4 EACH REQUIRED. LEVEL BEARING PLATE 3'-8"x 8"x 1/2" UNDER ROLLER. PAINT PER NOTE 6.
6	WELD 3.5 I 10 BEARING PLATE, (16" IN LENGTH) TO PIPE AT PANEL POINTS (19 REQUIRED), SHIM BETWEEN BEARING PLATE AND TRUSS WITH LEAD SHEET 16"X 3-1/2"X 1/16" PAINT PER NOTE 7.



PLAN VIEW
TRUSS NOT SHOWN
20 15 10 5 0 10



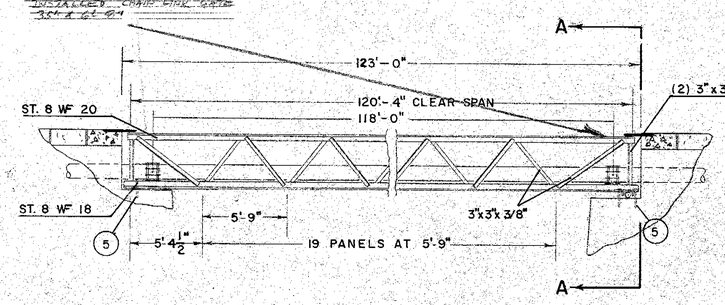
ELEVATION
TRUSS NOT SHOWN
20 15 10 5 0 10



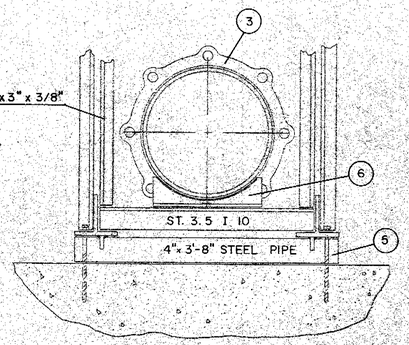
TYPICAL ISOMETRIC VIEW
SCALE: NONE

	GENERAL NOTES
1	THIS DRAWING FOR BID PURPOSES ONLY, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
2	SHOP DRAWINGS SHALL INDICATE DETAILS OF CONECTIONS AND SPLICES TO DEVELOP THE FULL STRENGTH OF THE MEMBER.
3	ERECT BY LIFTING TOP CHORDS OF TRUSSES AT 1/3 POINTS.
4	CAMBER TRUSS 6-1/2" CANTILEVER 3/16" DECKING TO PROVIDE 1" CLEARANCE AT ABUTMENT WALLS.
5	NO HOLES OR CUT-OUTS SHALL BE MADE EXCEPT FOR SLOTTED EXPANSION CONNECTIONS AT NORTH END OF TRUSS.
6	APPLY 1 COAT OF AMERCOAT DIMET-COTE AT LEAST 3 MILS THICK ACCORDING TO MANUFACTURERS SPECIFICATIONS.
7	CLEAN PIPE WELDS, APPLY 3 COATS INERTOL (ZINC DUST) NO. 632 AT LEAST 3 MILS THICK ACCORDING TO MANUFACTURERS SPECIFICATIONS.
8	USE ASTM A-7 STEEL FOR BRIDGES AND BUILDINGS.
9	PROVIDE GEAR OPERATOR (WITH OPERATING NUT) FOR 6" TURNOUT GATE VALVE (ITEM 4). ROTATE VALVE AS NECESSARY SO OPERATING NUT WILL CLEAR TRUSS MEMBERS. ~~CUT HOLE IN CHECKER PLATE VERTICALLY ABOVE OPERATING NUT FOR OPERATING WRENCH.~~
10	DIFUSER CONE AND PIPE TO CONE SHALL BE FABRICATED FROM 3/16" STEEL AND HOT DIP GALVANIZED.
11	DRESSER COUPLINGS (ITEM 3) SHALL BE HOT DIP GALVANIZED.
12	~~GROUT~~ CONCRETE ABUTMENTS AFTER PIPE INSTALLATION. GROUT ANCHOR BOLTS 6" MIN. WITH EMBECO.

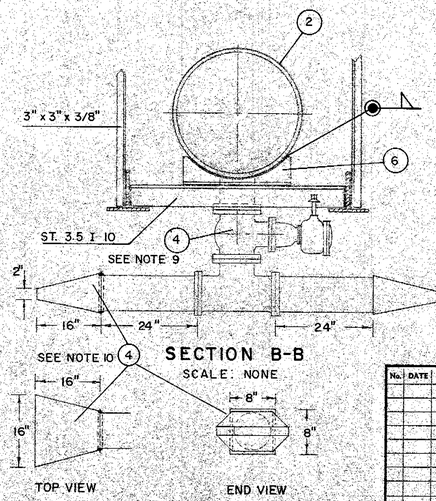
3-2668 @ STA. 219+33.96
INSTALLED CHAIN WITH GATE
SCH A 66-64



BOTTOM BEARING WARREN TRUSS DETAIL
SCALE: NONE



SECTION A-A NORTH END
SCALE: NONE



SECTION B-B
SCALE: NONE

TOP VIEW
END VIEW

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No.	DATE	REVISION	By
		4/63 KIM	

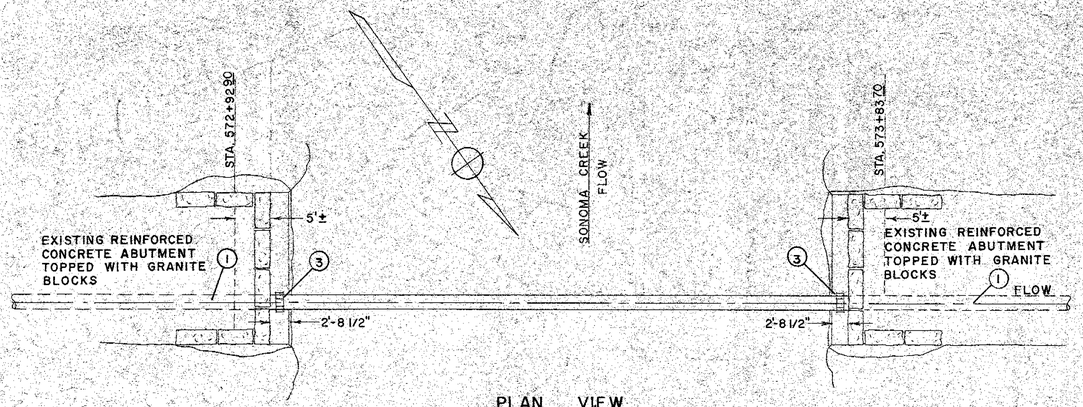
SONOMA AQUEDUCT
SONOMA CREEK OVERHEAD CROSSING
STA. 218 + 15.37 TO 219 + 42.46

SCALE: AS SHOWN | APPROVED John W. Mills CHIEF ENGINEER RE 8271 | DRAWN KIM
DATE: 3/15/1962 | CHECKED GRS RE 10702

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

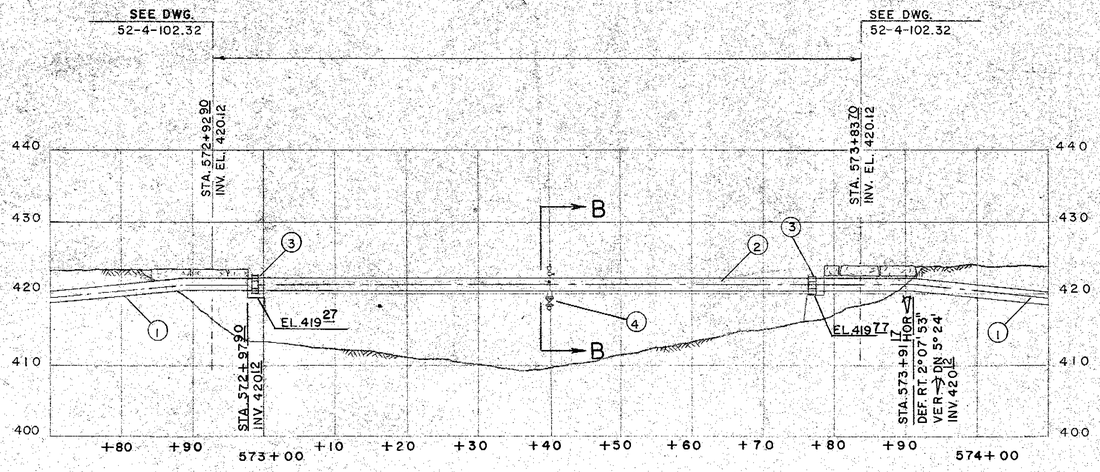
DESIGNED GRS RE 10702 | SUBMITTED OLW RE 8557 | DRAWING NUMBER 52-4-102.52

PRINTED ON DIEPO NO. 9000R CLEARPRINT



PLAN VIEW
TRUSS NOT SHOWN

20 15 10 5 0 10
SCALE IN FEET



ELEVATION
TRUSS NOT SHOWN

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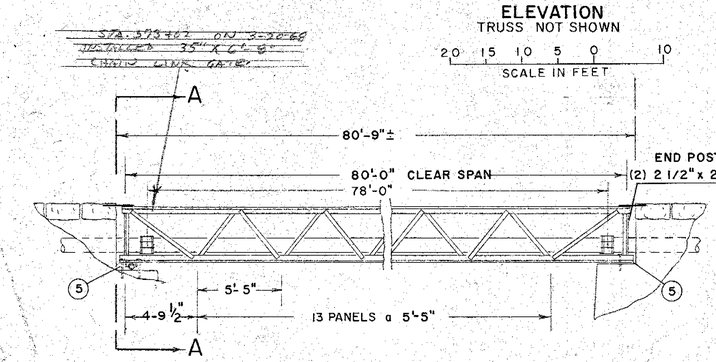
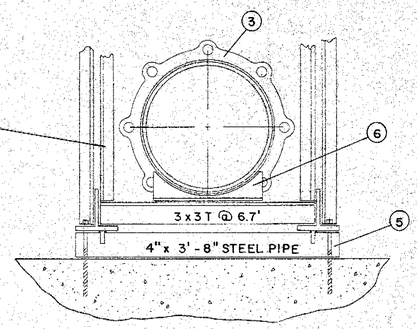
SCALE IN FEET



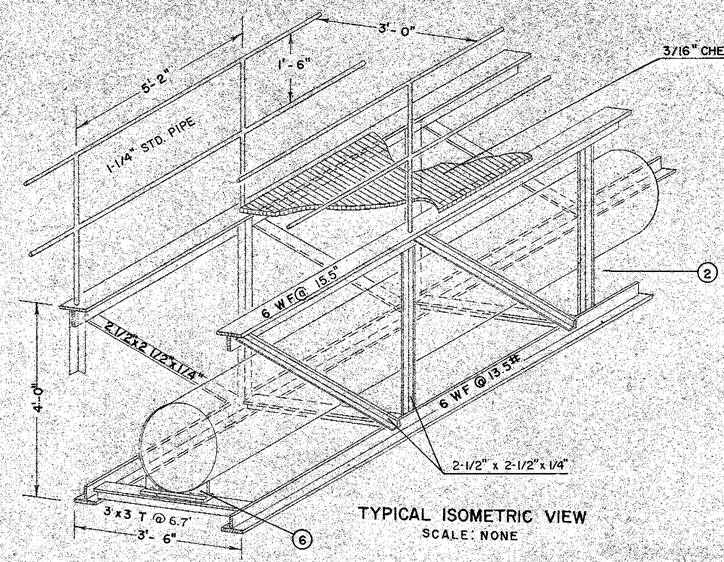
BOTTOM BEARING WARREN TRUSS DETAIL

SCALE: NONE



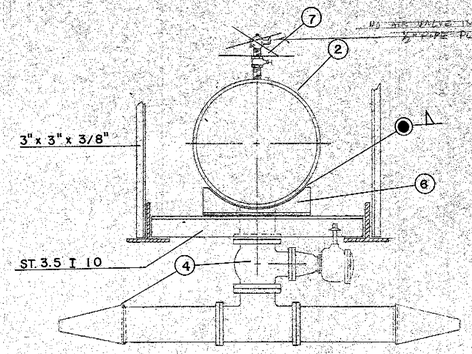
SECTION A-A SOUTH EAST END

SCALE: NONE



TYPICAL ISOMETRIC VIEW

SCALE: NONE



SECTION B—B

SCALE: NONE

SCHEDULE OF MATERIALS

1. 20" PIPE, LINED AND COATED AS PER MAIN LINE PIPING. PROVIDE FIELD CLOSURES.
2. 20" PIPE, SCHEDULE 20, WELDED, DOUBLE DIP GALVANIZED 78 00 LINEAL FEET REQUIRED. UNLINED. SEE NOTE 7.
3. 20" FLEXIBLE COUPLING, DRESSER STYLE 39 OR A.E, 2 REQD, LEAVE 3/4" SPACE. GALVANIZE.
4. 6" TURNOUT, 6" GATE VALVE, RENSSELAER LIST 13A OR A.E. WITH 6" TEE, (2) 6" PIPE EXTENSIONS AND DIFUSERS. SEE SECTION B-B, & NOTE 9 & 10, DWG. 52-4-102.52 FOR DETAILS.
5. BOTTOM BEARING WARREN TRUSS, 3/16" CHECKER PLATE WALKWAY AND 1-1/4 PIPE HAND RAILING, NORTHWEST END. BOLT THRU 6"x 6"x 1/2" LEVEL BEARING PLATE WITH 1"x 8" STANDARD STEEL BOLTS, 2 REQUIRED. SOUTHEAST END PLACE TRUSS ON A 6"x 3'6" DOUBLE EXTRA STRONG STEEL PIPE WITH 4 GUIDES. SLOT BOLT HOLES 3" AND ANCHOR TO CONCRETE ABUTMENT WITH 1"x 14" STANDARD STEEL BOLTS AND WASHERS, 4 EACH REQUIRED. LEVEL BEARING PLATE 3'6"x 8"x 1/2" UNDER ROLLER. PAINT PER NOTE 6.
6. WELD 3.5 I 10 BEARING PLATE, (16" IN LENGTH) TO PIPE AT PANEL POINTS (13 REQ'D.). WELD IN FIELD, SHIM BETWEEN BEARING PLATE & TRUSS WITH LEAD SHEET 16"x 3' 1/2"x 1/16", PAINT PER NOTE 7.
7. 1/2" AIR RELEASE VALVE, APCO #55 OR A.E WITH (2) SHORT NIPPLES AND (1) 1/2" BRASS GATE VALVE CRANE #1 OR A.E.

GENERAL NOTES

1. THIS DRAWING FOR BID PURPOSES ONLY, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. SHOP DRAWINGS SHALL INDICATE DETAILS OF CONNECTIONS AND SPLICES TO DEVELOP THE FULL STRENGTH OF THE MEMBER.
3. ERECT BY LIFTING TOP CHORDS OF TRUSSES AT 1/3 POINTS.
4. CAMBER TRUSS 3" CANTILEVER 3/16" DECKING TO PROVIDE 1" CLEARANCE AT ABUTMENT WALLS.
5. NO HOLES OR CUT-OUTS SHALL BE MADE EXCEPT FOR SLOTTED EXPANSION CONNECTIONS ON S.E. END.
6. APPLY 1 COAT OF AMERCOAT DIMET-COAT AT 3 MILS THICK ACCORDING TO MANUFACTURERS SPECIFICATIONS.
7. CLEAN PIPE WELDS, APPLY 3 COATS INERTOL (ZINC DUST) N°632 AT LEAST 3 MILS THICK ACCORDING
8. ~~GROUT~~ CONCRETE ABUTMENTS AFTER PIPE INSTALLATION. GROUT ANCHOR BOLTS, 6" MIN. WITH ~~EMBECO~~ SULFUR USE AST'M A-7 STEEL FOR BRIDGES & BUILDINGS.

No.	DATE	REVISION	By

4/63
KIM

SONOMA AQUEDUCT
SONOMA CREEK OVERHEAD CROSSING
STA. 572+92.90 TO 573+83.70

SCALE: AS SHOWN | APPROVED: Andrew Miller, CHIEF ENGINEER RE 8271 | DRAWN: KIM & CWE
DATE: 3/15/62 | CHECKED: GRS RE 10702

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: GRS RE 10702 | SUBMITTED: OEW RE 8557 | DRAWING NUMBER: 52-4-102.53

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