

LEGEND

- W-6"--- Exist'g. Water Line
- W-12"--- New Water Line
- _{F.H.}--- Exist'g. Fire Hydrant
- _{F.H.}--- New Fire Hydrant
- W.M.--- Exist'g. Water Meter
- New Service Lateral
- A.I.P.--- Cut and abandon in Place existing Water Line
- ARV New Air Relief Valve Assembly

- Sta. 3+10 Lt.
 Connect to exist'g. 10" C.I.
 1- 10" x 6" Cross. MJ x Flg.
 1- 6" Gate Valve, MJ x Flg.
 1- 10" Solid Sleeve, MJ
 1- 6" Solid Sleeve, MJ
 1- 10" C.I. Nipple
 1- 6" Gate Valve (AC x Flg.)
 2- C.I. Valve Box
 3- Conc. Reaction Blocks
 1- Fire Hydrant
 8 LF 6" AC Pipe on F.H. Branch
 1- 6" MOA Nipple

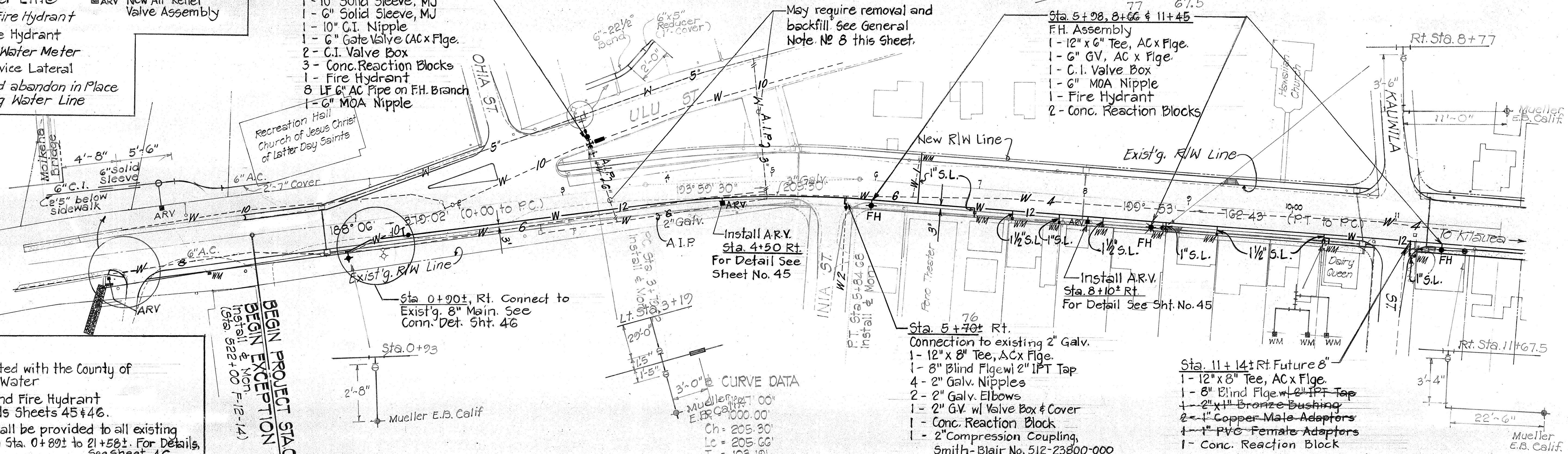
NOTE:

For Typical Culvert Crossing Detail, See Water Details Sheet No. 46.

May require removal and backfill. See General Note No. 8 this Sheet.

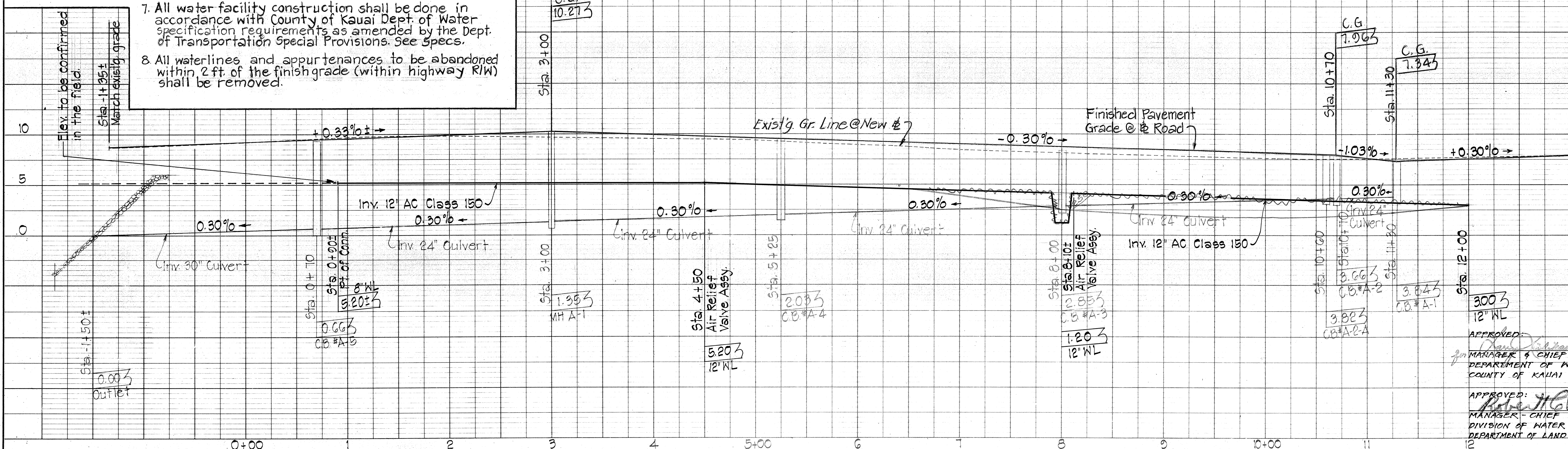
Rt. Sta. 5+98 Mueller E.B. Calif.
 4'-0"
 TRUE NORTH
 Scale: 1" = 50'

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-74	1974	43	53



GENERAL NOTES:

- All work shall be coordinated with the County of Kauai, Department of Water.
- For Culvert crossings and Fire Hydrant Installations, See Details Sheets 45 & 46.
- New Service Laterals shall be provided to all existing water Service Laterals from Sta. 0+89± to 21+58±. For Details, See Sheet 46.
- All valve boxes and covers within paved areas shall be traffic type.
- Construction of water facilities shall be inspected by Department of Water, County of Kauai.
- All buried metallic valves, pipes, bends, fittings, bolts, straps, etc. shall receive one additional (in addition to original) field coat of Bitumastic No. 505 or approved equal corrosive resistant paint prior to backfilling.
- All water facility construction shall be done in accordance with County of Kauai Dept. of Water specification requirements as amended by the Dept. of Transportation Special Provisions. See Specs.
- All waterlines and appurtenances to be abandoned within 2 ft. of the finish grade (within highway R/W) shall be removed.



APPROVED: *[Signature]* DATE: 7/2/74
 MANAGER & CHIEF ENGINEER
 DEPARTMENT OF WATER
 COUNTY OF KAUAI

APPROVED: *[Signature]* DATE: 7/1/74
 MANAGER - CHIEF ENGINEER
 DIVISION OF WATER AND LAND DEVELOPMENT
 DEPARTMENT OF LAND AND NATURAL RESOURCES

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-74	1974	44	53

NOTES:

1. For Inset A and B, See Water Details Sht. No 45.
2. For Typical Culvert Crossing Detail,
See Water Details Sht. No 46.

2 CURVE DATA

$\Delta = 12^{\circ} 12' 00''$
 $R = 500.00'$
 $Ch = 106.26'$
 $Lc = 106.47'$
 $T = 53.44'$

Sta. 17+24 & 20+16
F.H. Assembly
1 - 12" x 6" Tee, AC x Flge.
1 - 6" G.V., AC x Flge.
1 - C.I. Valve Box
1 - 6" MOA Nipple
1 - Fire Hydrant
2 - Conc Reaction Blocks

Sta. 13 + 21, Lt. Tee Connection
 1 - 16"x 12" C.I. Tee, AC ends
 1 - 16" Butterfly Valve, AC x AC
 2 - 12" Butterfly Valve, AC
 3 - C.I. Valve Box
 2 - 16" MOA Nipple
 2 - 12" MOA Nipple
 1 - 16"x 12" Eccentric
 Reducer, AC x AC
 2 - Conc. Reaction Blocks

Sta. 13 + 01, Lt. _____
 1 - 16" 1/8 C.I. Bend, A.C.
 1 - Conc. Reaction Block
 39 ± LF 16" AC Pipe Cl-150

Sta. 13+80[±] Lt.
Connection to Exist'g
4" Main, see sht. no

Sta. 14+23, F.H. Assembly

1	45° PVC Bend		2	CURVE DATA
1	6" Gate Valve,(AC x AC)		$\Delta =$	34° 08' 00"
1	C.I. Valve Box		R =	400.00'
1	6" Fiber Glass Tee (AC x AC)		Ch =	234.79'
	50 L.F. 6" AC Pipe		Lc =	238.30'
1	Fire Hydrant		T =	122.80'
1	2" Brass Pipe, (Cut to fit) w/2" female adapter			
3	Conc. Reaction Blocks			
1	6" Plug w/2" IPT Top			

⚡ CURVE DATA
 $\Delta = 34^{\circ} 08' 00''$
 $R = 400.00'$
 $Ch = 234.79'$
 $Lc = 238.30'$
 $T = 122.80'$

- Connect to existg. 2" galv. line
- 72 LF 2" PVC Pipe
- 1 - 2" G.V.
- 1 - C.I. Valve Box
- 1 - 45° Bend
- 1 - 2" Adapter (PVC to Galv.)

Sta. 17 + 70 ± Lt.
Connect to exist'g. 2" PVC
1 - 12" x 8" Tee, AC
1 - 12" Butter fly Valve, AC ends
1 - 8" Gate Valve, AC ends
2 - C.I. Valve Boxes
70LF 8" AC Pipe, Class 150
1 - 8" Flg AC w/ 2" IPT Tap
2 - 2" PVC 45° Bends
1 - 2" Compression Coupling Smith
Blair No 512-238000-000 or equivalent
2 - Conc. Reaction Blocks
2 - 2" Copper Male Adaptors
1 - 1" PVC Female Adaptor

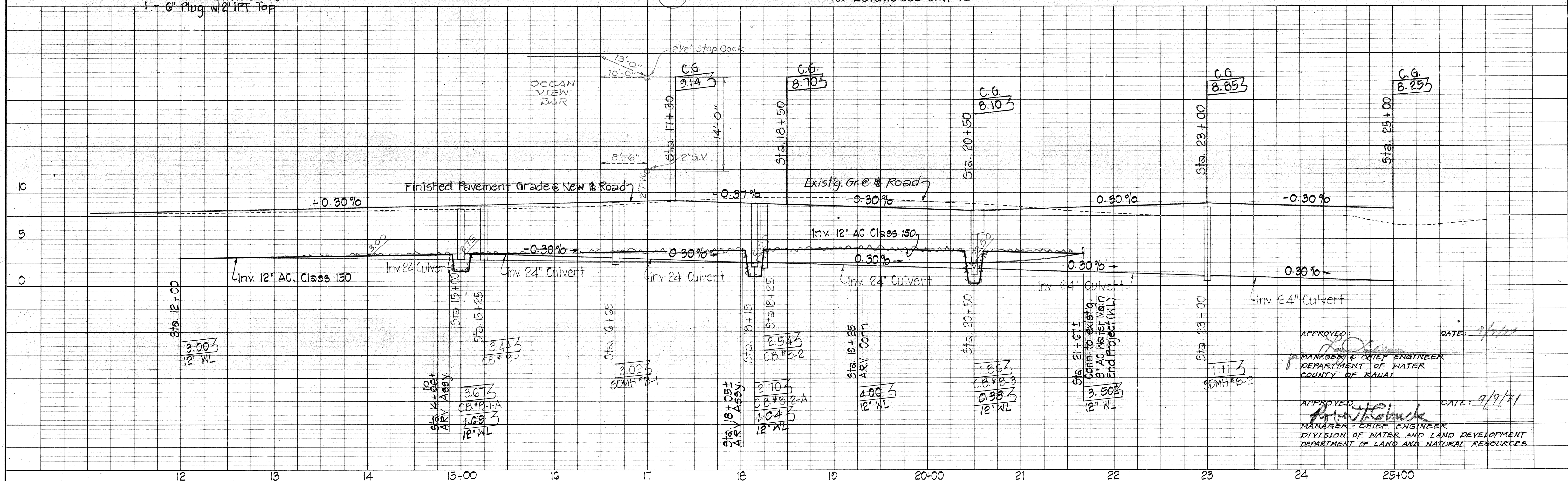
Sta. 19+25 _____
Install Air Relief Valve
For Details See Sht. 45

Sta. 21+67 ± Lt.
Connect to exist'g. 8" AC
1 - 12" 90° Fiber Glass Bend,
1 - 12" x 8" Reducer (ACxAC)
1 - 8" 22½ Fiber Glass Bend (A
2 - 8" AC short length pipe
1 - 8" Romac Ringweij
Coupling or equivalent
2 - Conc. Reaction Blocks
1 - 8" Nipple (MOA)
1 - 12" Nipple (MOA)
(For Det. See Sht. No 46)

CURVE DATA
 $\Delta = 16^{\circ} 11' 00''$
 $R = 1000.00'$
 $Ch = 281.51'$
 $Lc = 282.45'$
 $T = 142.17'$

SECONDARY & CURVE DATA

①	②	③
$\Delta = 11^{\circ} 52' 00''$	$\Delta = 14^{\circ} 07' 20''$	$\Delta = 09^{\circ} 05' 20''$
$R = 1260.00'$	$R = 986.00'$	$R = 3800.00'$
$Ch = 241.85'$	$Ch = 242.41'$	$Ch = 204.84'$
$Lc = 242.22'$	$Lc = 243.08'$	$Lc = 204.86'$
$T = 121.48'$	$T = 122.13'$	$T = 102.46'$



DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-74	1974	44A	53

PLAN

NO. 1

DATE

BY

REVIEWED

DATE

BY

NOTE BOOK

NO. 1

DATE

BY

REVIEWED

DATE

BY

PROFILE

NO. 1

DATE

BY

REVIEWED

DATE

BY

NOTE BOOK

NO. 1

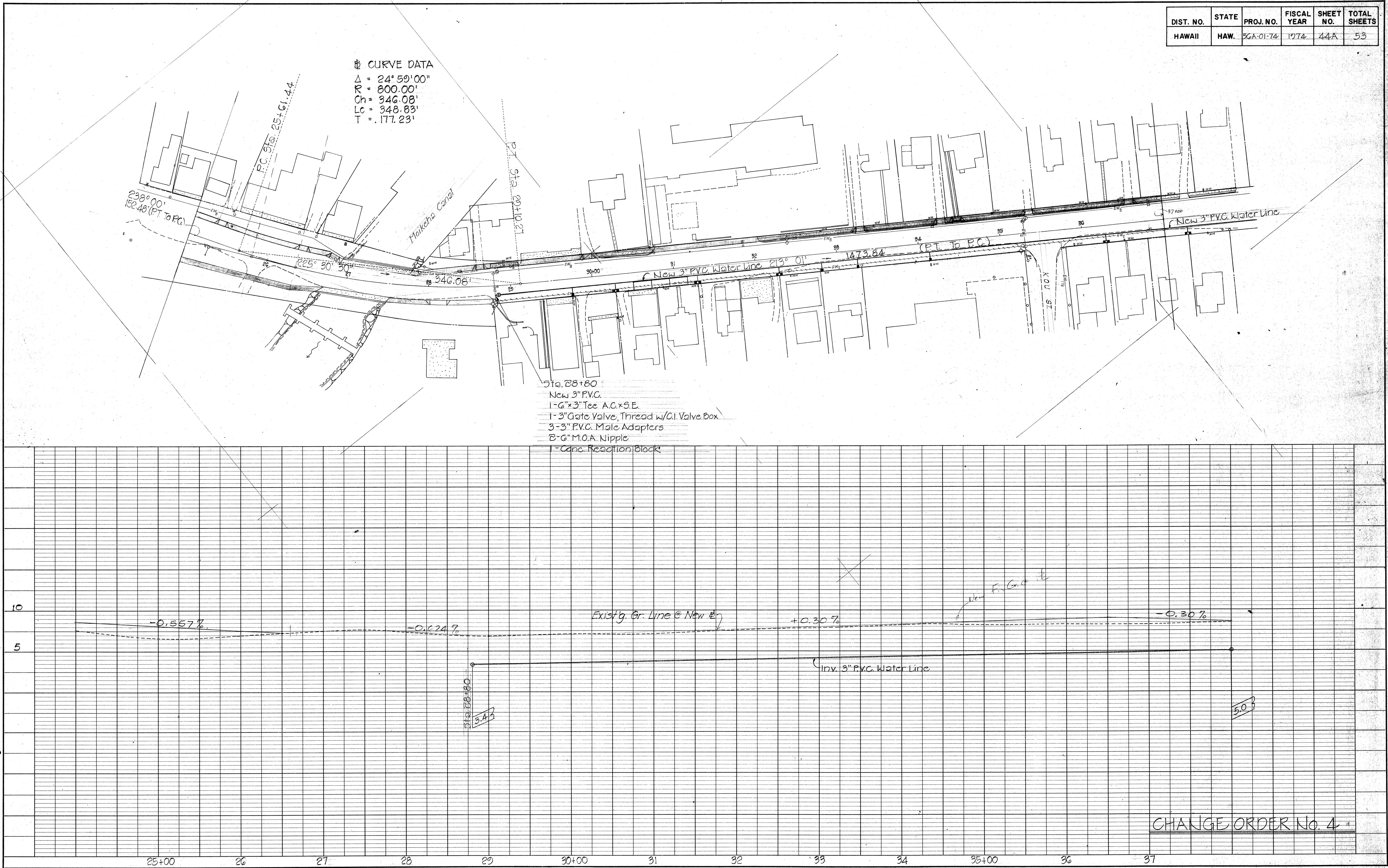
DATE

BY

REVIEWED

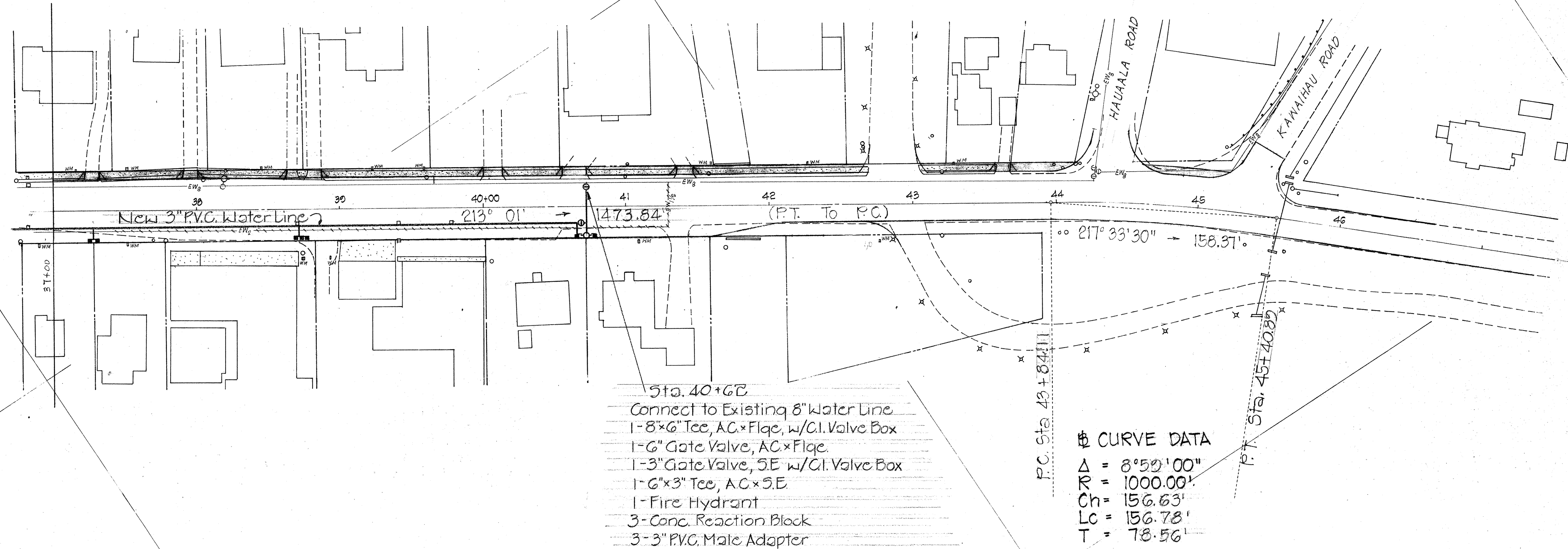
DATE

BY



DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-74	1974	44B	53

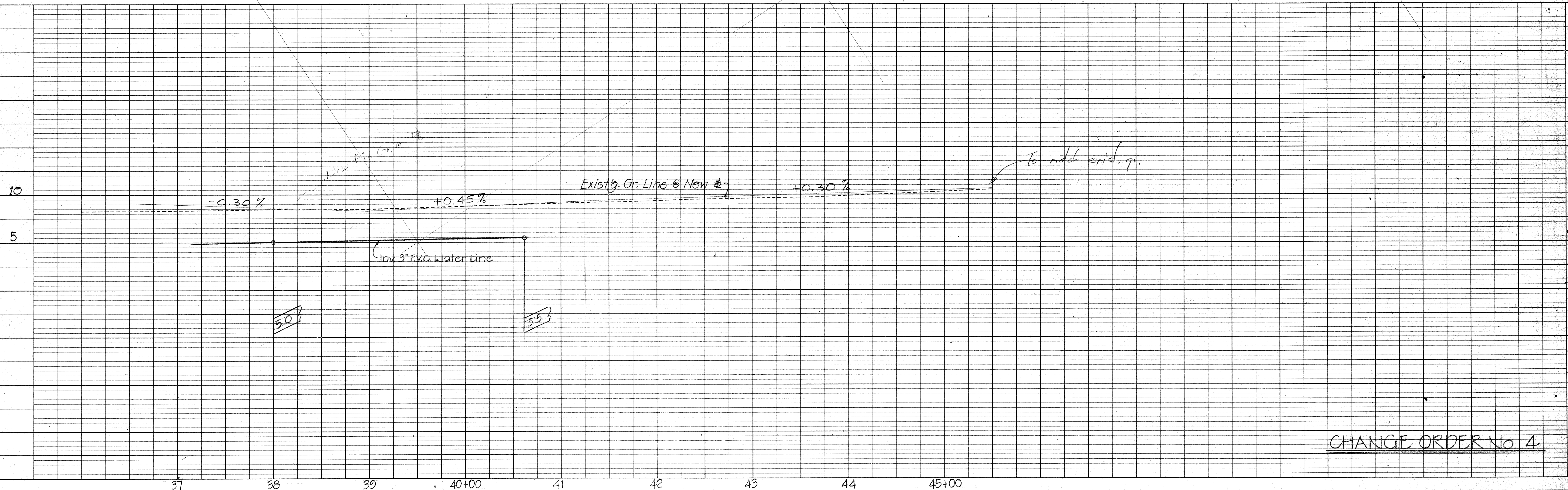
PLAN	
DATE	BY
NOTE BOOK	
RE. OF WAY CHECKED	
No.	



- Sta. 40+68
 Connect to Existing 8" Water Line
 1-8" Tee, AC x Flg. w/Cl. Valve Box
 1-6" Gate Valve, AC x Flg.
 1-3" Gate Valve, SE w/Cl. Valve Box
 1-6" x 3" Tee, AC x SE
 1-Fire Hydrant
 3-Conc. Reaction Block
 3-3" P.V.C. Male Adapter

§ CURVE DATA
 $\Delta = 8^{\circ}50'00''$
 $R = 1000.00'$
 $Ch = 156.63'$
 $Lc = 156.78'$
 $T = 78.56'$

PROFILE	
DATE	BY
NOTE BOOK	
GRADES CHECKED	
S. M. & NOTED	
STRUCTURE NOTATIONS CHECKED	
No.	



CHANGE ORDER No. 4