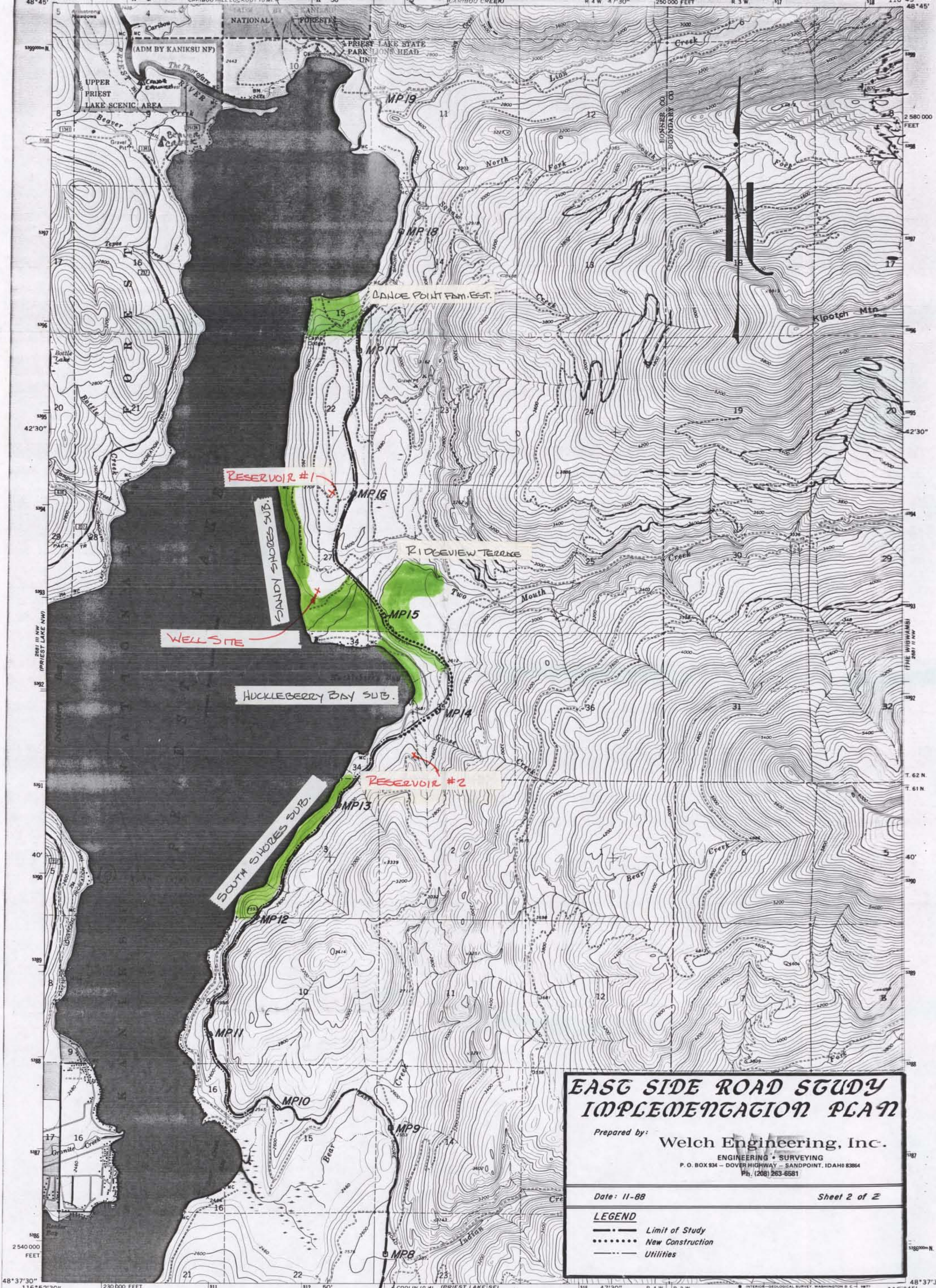




**EAST SIDE ROAD STUDY
IMPLEMENTATION PLAN**

Prepared by: **Welch Engineering, Inc.**
ENGINEERING • SURVEYING
P. O. BOX 934 - DOVER HIGHWAY - SANDPOINT, IDAHO 83864
Ph. (208) 263-6581

Date: 11-88 Sheet 2 of 2

LEGEND

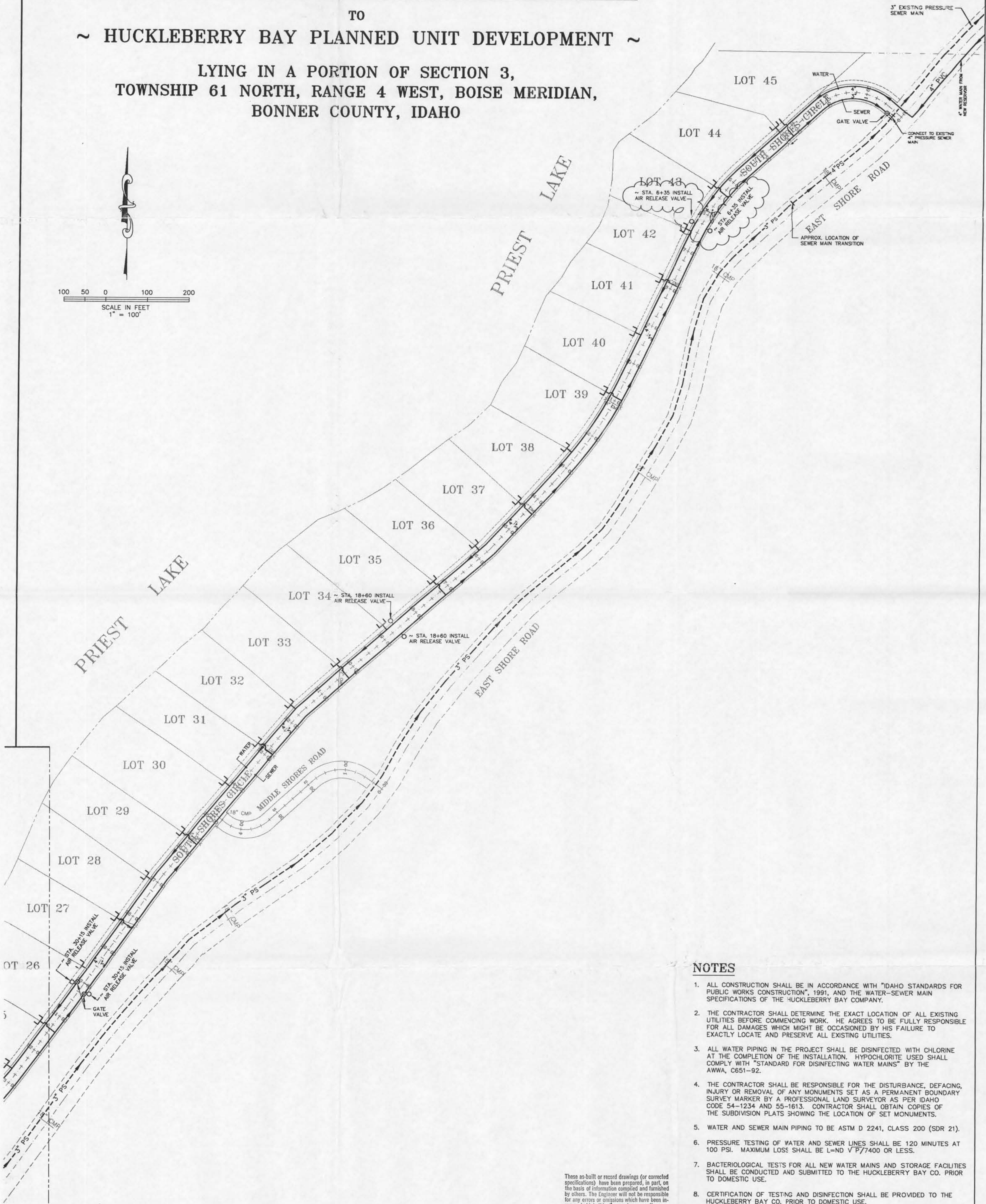
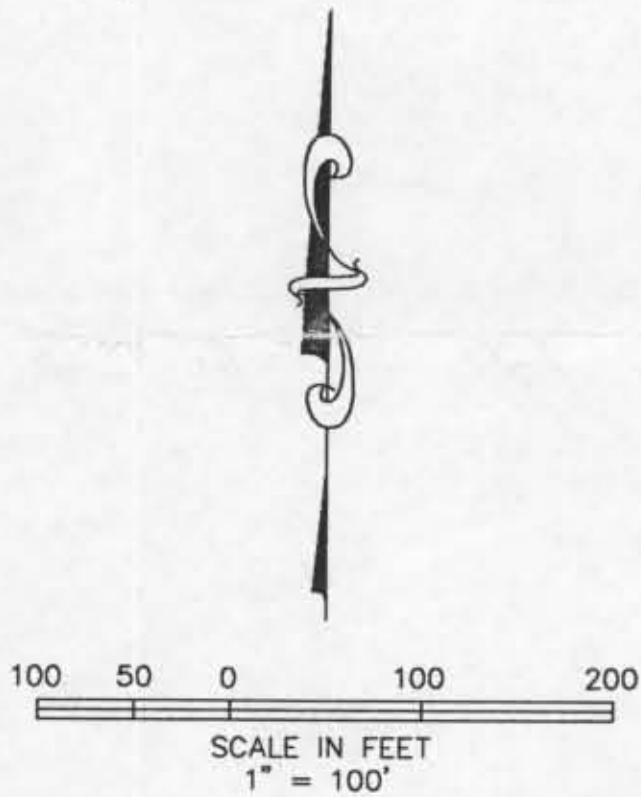
- Limit of Study
- New Construction
- Utilities

WATER & SEWER MAIN EXTENSION
FOR
SOUTH SHORES ADDITION

STATE OF IDAHO
DEPARTMENT OF LANDS

TO
~ HUCKLEBERRY BAY PLANNED UNIT DEVELOPMENT ~

LYING IN A PORTION OF SECTION 3,
TOWNSHIP 61 NORTH, RANGE 4 WEST, BOISE MERIDIAN,
BONNER COUNTY, IDAHO



These as-built or record drawings (or corrected specifications) have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer will not be responsible for any errors or omissions which have been incorporated into this document as a result.

Name: *[Signature]*
Date: 2/2/98

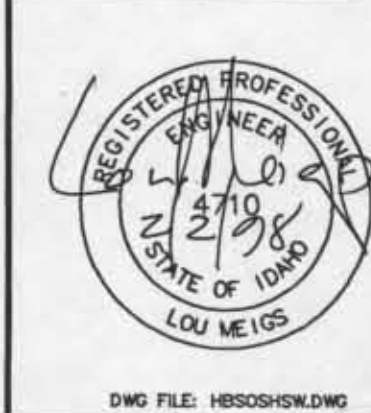
NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION", 1991, AND THE WATER-SEWER MAIN SPECIFICATIONS OF THE HUCKLEBERRY BAY COMPANY.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UTILITIES.
3. ALL WATER PIPING IN THE PROJECT SHALL BE DISINFECTED WITH CHLORINE AT THE COMPLETION OF THE INSTALLATION. HYPOCHLORITE USED SHALL COMPLY WITH "STANDARD FOR DISINFECTING WATER MAINS" BY THE AWWA, C651-92.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISTURBANCE, DEFACING, INJURY OR REMOVAL OF ANY MONUMENTS SET AS A PERMANENT BOUNDARY SURVEY MARKER BY A PROFESSIONAL LAND SURVEYOR AS PER IDAHO CODE 54-1234 AND 55-1613. CONTRACTOR SHALL OBTAIN COPIES OF THE SUBDIVISION PLATS SHOWING THE LOCATION OF SET MONUMENTS.
5. WATER AND SEWER MAIN PIPING TO BE ASTM D 2241, CLASS 200 (SDR 21).
6. PRESSURE TESTING OF WATER AND SEWER LINES SHALL BE 120 MINUTES AT 100 PSI. MAXIMUM LOSS SHALL BE L=ND V/P/7400 OR LESS.
7. BACTERIOLOGICAL TESTS FOR ALL NEW WATER MAINS AND STORAGE FACILITIES SHALL BE CONDUCTED AND SUBMITTED TO THE HUCKLEBERRY BAY CO. PRIOR TO DOMESTIC USE.
8. CERTIFICATION OF TESTING AND DISINFECTION SHALL BE PROVIDED TO THE HUCKLEBERRY BAY CO. PRIOR TO DOMESTIC USE.

CALL 48 HOURS BEFORE YOU DIG: 1-800-626-4950

AS BUILT DRAWING

NO.	DATE	DESCRIPTION	BY
2	7/15/98	ADD LOT 31/32 SEWER & WATER	LM
1	1/27/98	ADD W&S AIR RELIEF @ 6+35	TB

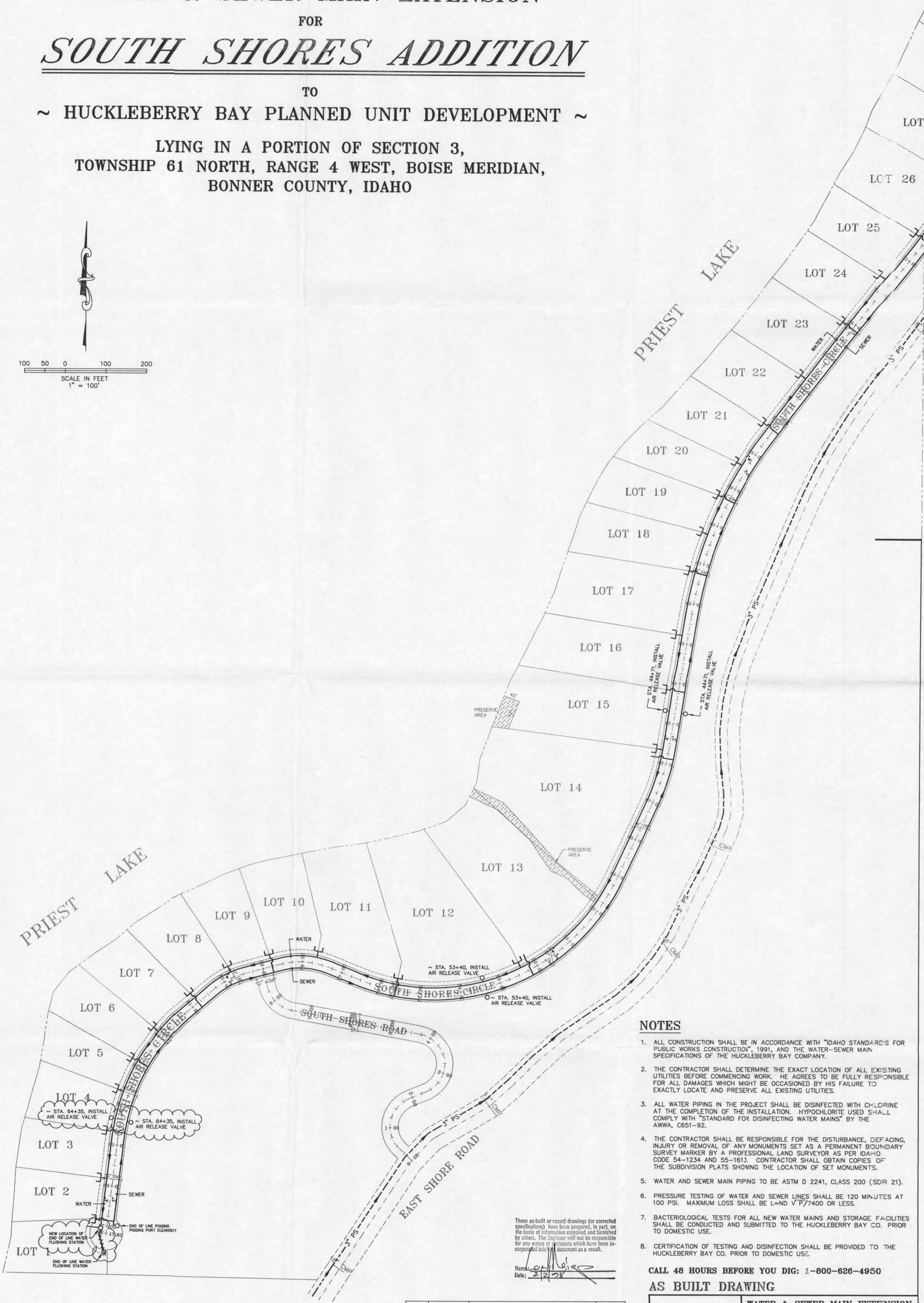
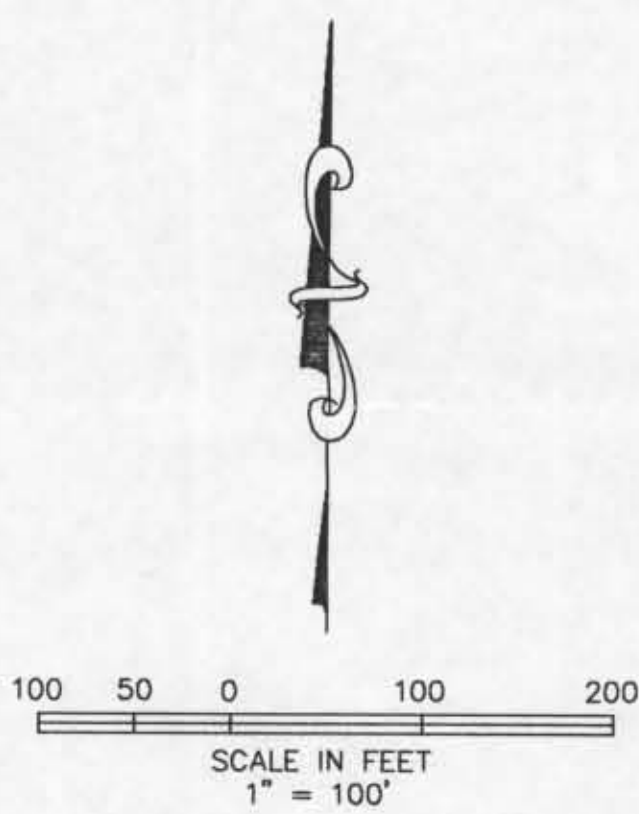


WATER & SEWER MAIN EXTENSION			
HUCKLEBERRY BAY ~ SOUTH SHORES			
Welch Engineering, Inc.			
CIVIL ENGINEERING ~ SURVEYING			
P.O. BOX 934 - 2029 DOVER HIGHWAY - SANDPOINT, IDAHO 83864			
PH: (208) 283-6581			
DRAWN BY:	BG	DATE:	2-14-97
CHECKED BY:	LM	SCALE:	AS NOTED
PROJECT NO.	95-139	SHEET	2 OF 9

WATER & SEWER MAIN EXTENSION
FOR
SOUTH SHORES ADDITION

TO
~ HUCKLEBERRY BAY PLANNED UNIT DEVELOPMENT ~

LYING IN A PORTION OF SECTION 3,
TOWNSHIP 61 NORTH, RANGE 4 WEST, BOISE MERIDIAN,
BONNER COUNTY, IDAHO



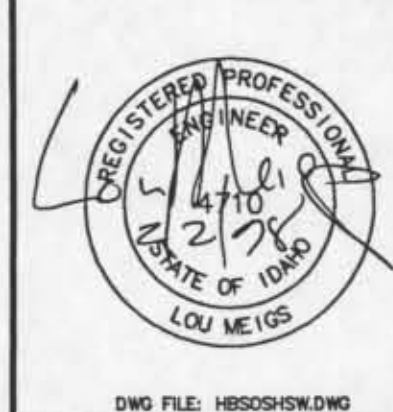
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CALL 48 HOURS BEFORE YOU DIG: 1-800-626-4950

AS BUILT DRAWING

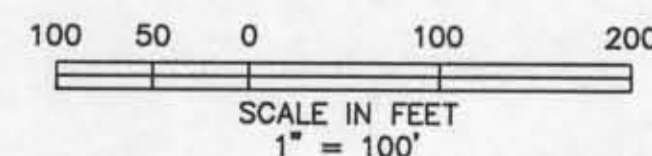
NO.	DATE	DESCRIPTION	BY
2	1/27/98	MOVE FLUSHING STATION TO 67+05	TB
1	1/27/98	ADD W&S AIR RELIEF @ 64+35	TB



WATER & SEWER MAIN EXTENSION
HUCKLEBERRY BAY ~ SOUTH SHORES
Welch Engineering, Inc.
CIVIL ENGINEERING ~ SURVEYING
P.O. BOX 934 ~ 2029 DOVER HIGHWAY ~ SANDPOINT, IDAHO 83864
PH: (208) 263-9581

DRAWN BY: BG	DATE: 2-14-97	SHEET: 13 OF 9
DESIGNED BY: TB	SCALE BY: AS NOTED	PRCJ. NO. 96-139
CHECKED BY: LM		

DWG FILE: HBS03SHW.DWG



APPROX. THREAD OF
TWO MOUTH CREEK
AS FIELD LOCATED

APPROX. THREAD OF
TWO MOUTH CREEK
AS FIELD LOCATED

EXISTING MANHOLE
SOUTH OF TWO MOUTH
BRIDGE

EXISTING 4\"/>

EXISTING 6\"/>

'AS-BUILTS'

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Name: Jon M. Welch
Date: 1/20/94

NOTES:

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5. WATER AND SEWER MAIN PIPING TO BE CLASS 160, PVC.

CALL 48 HOURS BEFORE YOU DIG: 1-800-626-4950

HUCKLEBERRY BAY COMPANY	
WATER AND SEWER MAIN EXTENSION HUCKLEBERRY BAY AND RIDGEVIEW TERRACE	
Welch Engineering, Inc.	
CIVIL ENGINEERING SURVEYING	
P.O. BOX 954 - 2029 DUTCH HURWAY - SANDPOINT, IDAHO 83864	
PH (208) 263-8661	
DRAWN BY: B. GATLIN	DATE: FEBRUARY, 1994
CHECKED BY: L. MEIGS	SCALE: 1" = 100'
SHEET 1 OF 3	

RIDGEVIEW TERRACE SUBDIVISION

LOT 21

LOT 22

LOT 23

LOT 24

LOT 25

LOT 26

LOT 27

LOT 20

LOT 19

LOT 18

LOT 17

LOT 16

LOT 15

LOT 14

LOT 13

LOT 12

10' UTILITY
EASEMENT

2 1/2" PRESSURE
SEWER MAIN

4" WATER MAIN

STA 26+52 (SEWER)
END-OF-PROJECT

STA 31+35 (WATER)
END-OF-PROJECT

END-OF-LINE PIGGING PORT
CLEANOUT/FLUSHING STATION
(SEWER AND WATER)

INSTALL 6" GATE
VALVE AND CONNECT
TO EXISTING WATERLINE

EXISTING SEWER
PUMPING STATION

STA 10+00

EXISTING 4\"/>

BULL PINE LANE

8" WATER MAIN

STA 5+79

EXISTING 4\"/>

10' UTILITY
EASEMENT

2 1/2" PRESSURE
SEWER MAIN

4" WATER MAIN

EXISTING 4\"/>

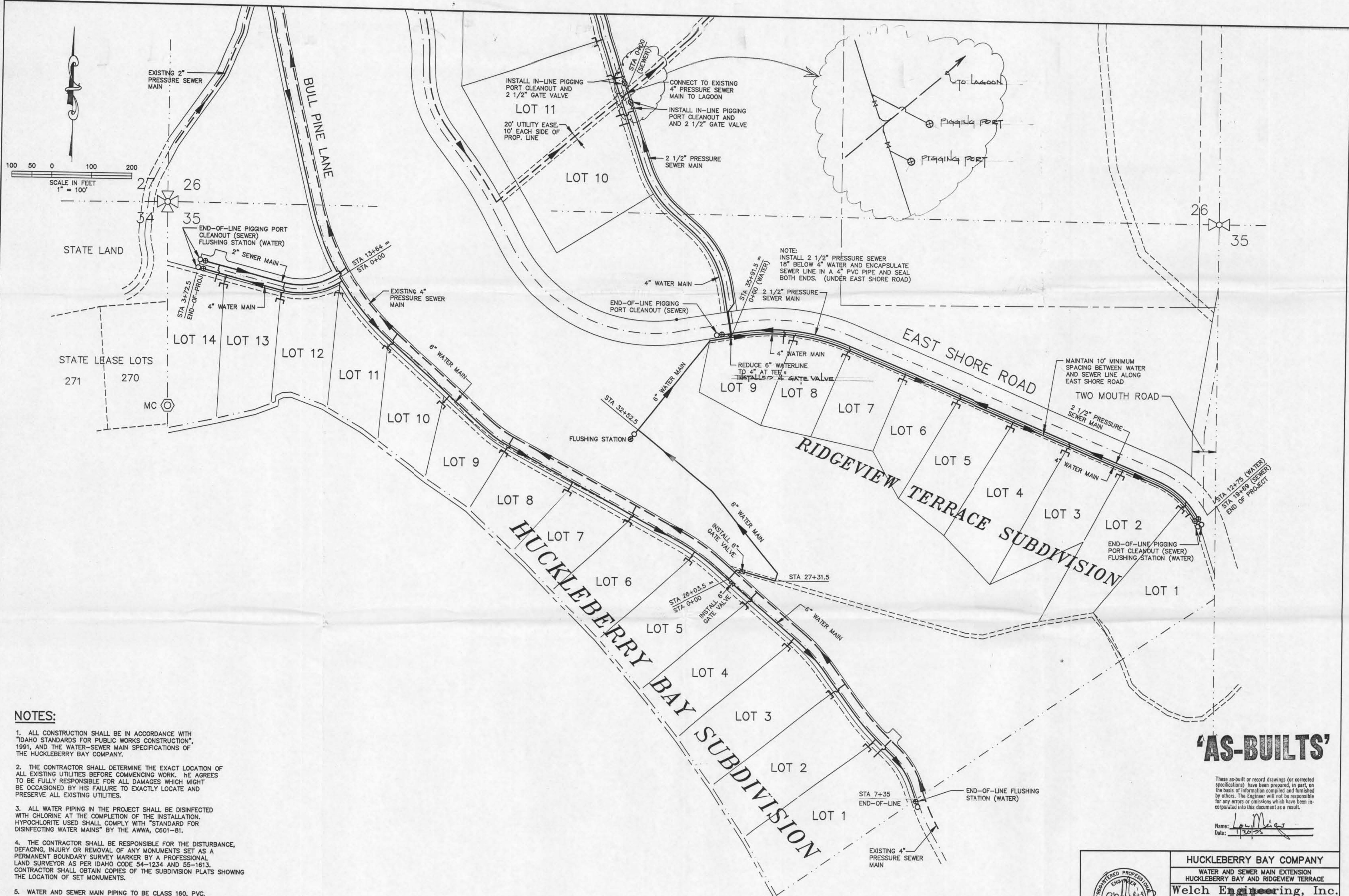
EXISTING SEMI-PUBLIC SERVICE AREA

EXISTING
MANHOLE

LAGOON

LAGOON ACCESS
ROAD





NOTES:

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'AS-BUILTS'

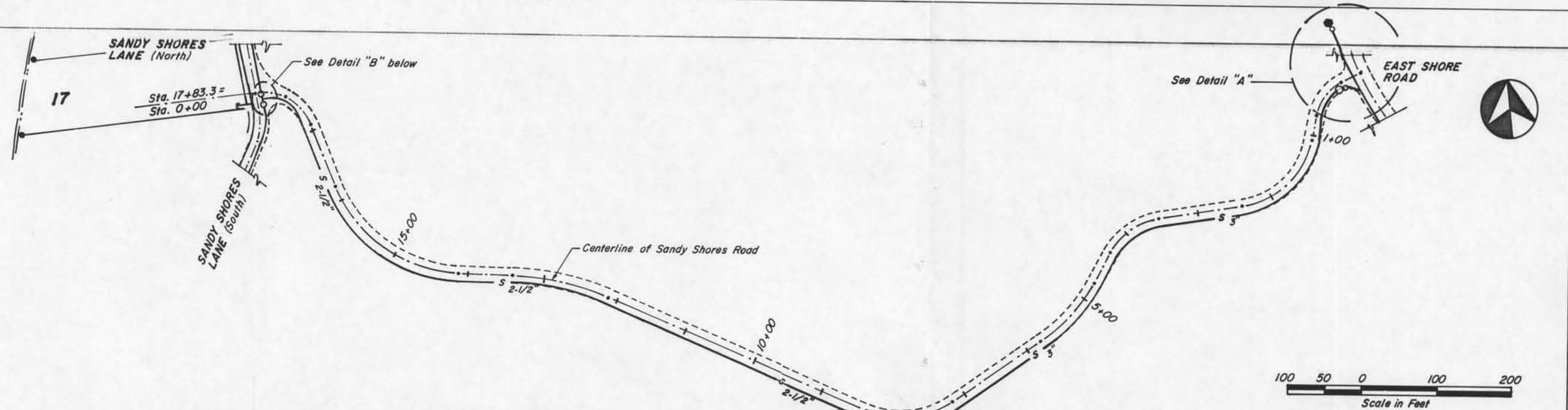
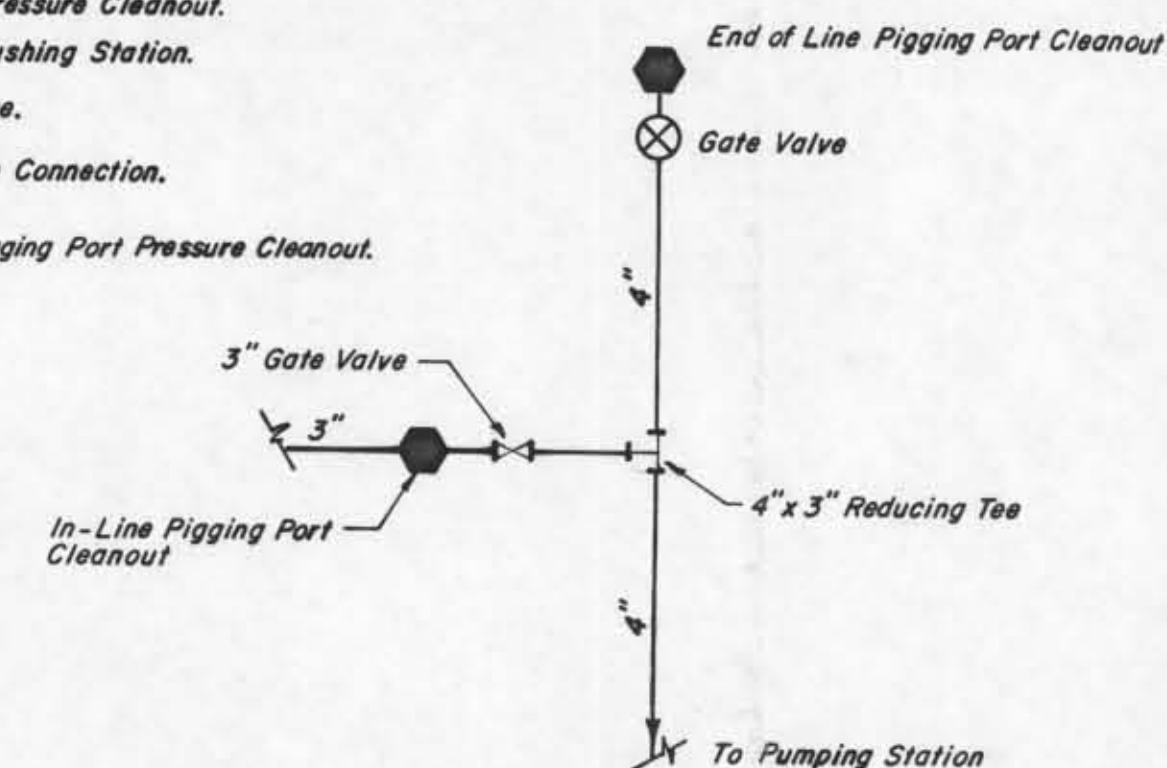
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Name: Lou Meigs
Date: 11/2/93

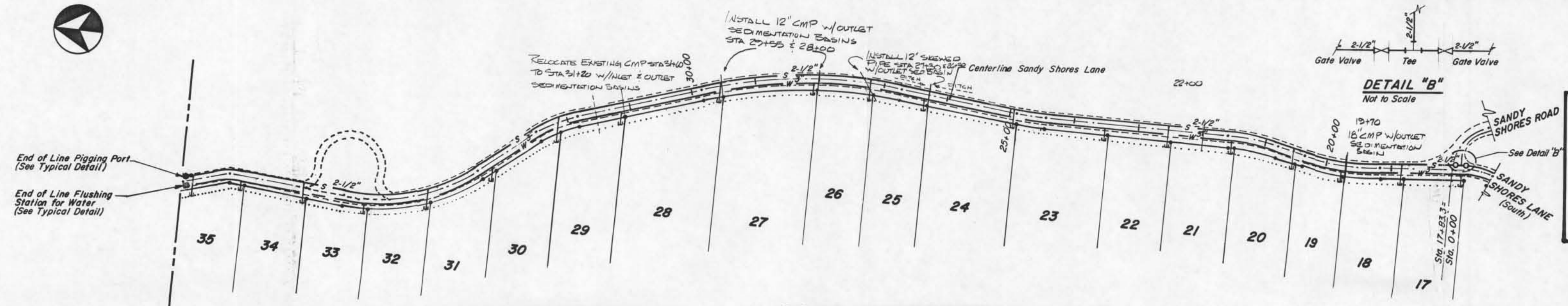
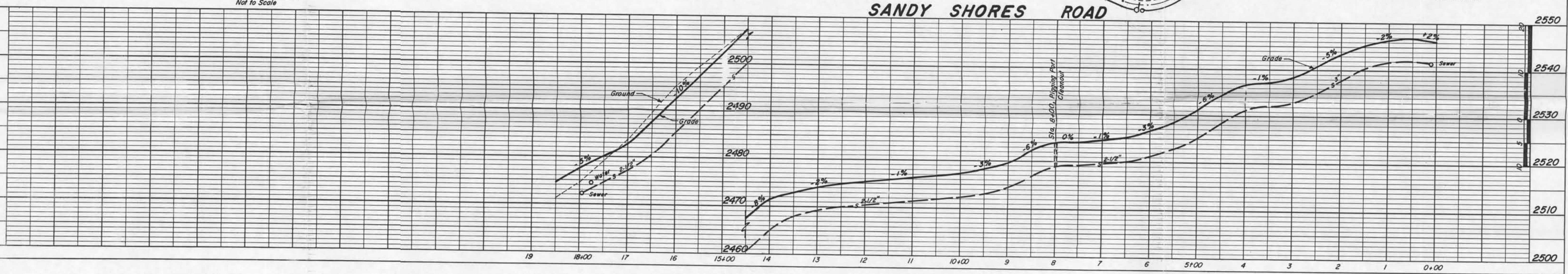
	HUCKLEBERRY BAY COMPANY WATER AND SEWER MAIN EXTENSION HUCKLEBERRY BAY AND RIDGEVIEW TERRACE		
	Welch Engineering, Inc. CIVIL ENGINEERING SURVEYING P.O. BOX 904 - 2020 DOWNEY HIGHWAY - SANDPOINT, IDAHO 83864 PH: (208) 263-6681		
	DRAWN BY: B. GATLIN	DATE: APRIL, 1994	SHEET 2 OF 3
	CHECKED BY: MEIGS	SCALE: 1" = 100'	

LEGEND

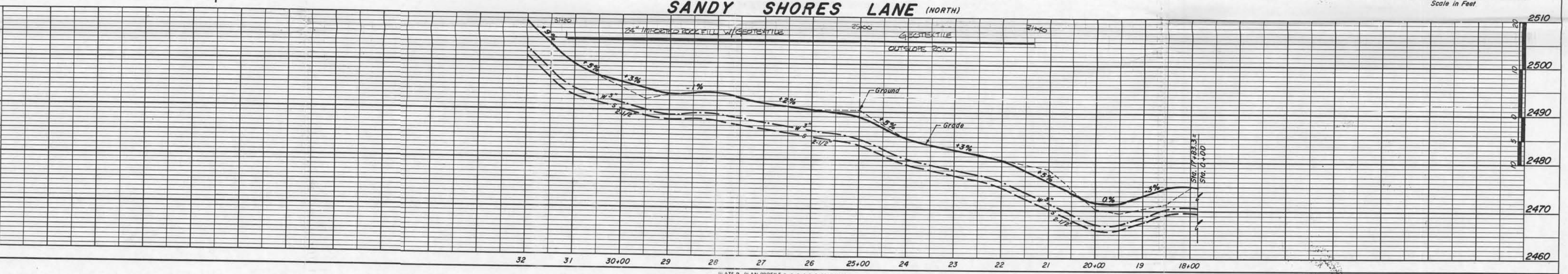
- Pigging Port Pressure Cleanout.
- End of Line Flushing Station.
- ▲ Air Relief Valve.
- Lateral Service Connection.
- End of Line Pigging Port Pressure Cleanout.



SANDY SHORES ROAD



SANDY SHORES LANE (NORTH)



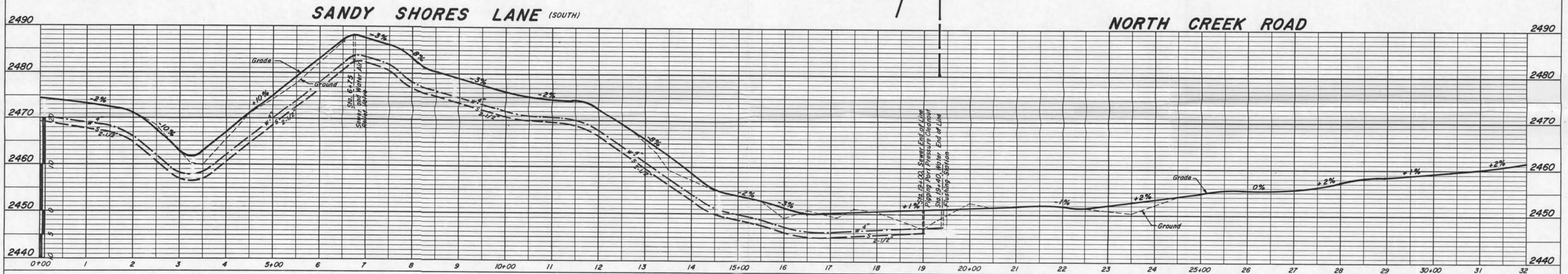
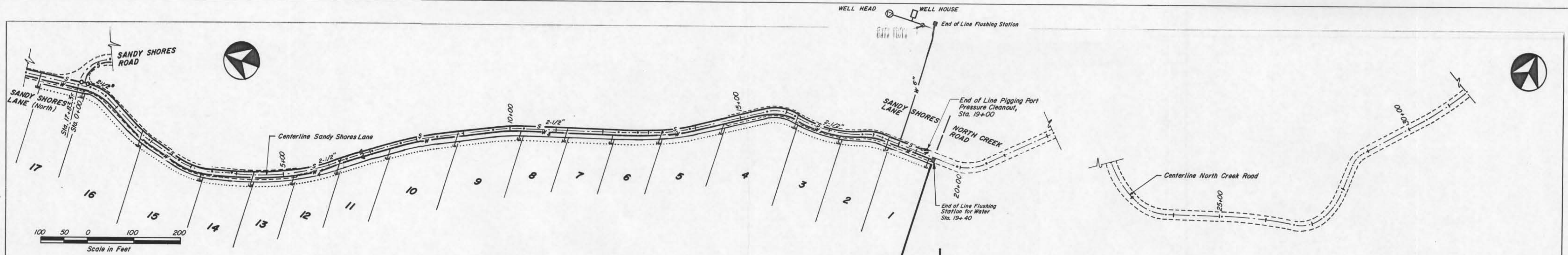
SANDY SHORES ADDITION
INTERIOR ROADS
Welch Engineering, Inc.
 ENGINEERING & SURVEYING
 P. O. BOX 834 - DOVER HIGHWAY - SANDPOINT, IDAHO 83864
 PH. (208) 263-6581

Drawn by: C. Gattin
 Checked by: C. Gattin
 Date: 12-88
 Scale: As Noted
 Sheet 1 of 2

REGISTERED PROFESSIONAL ENGINEER
 4710
 STATE OF IDAHO
 LOU MEIGS



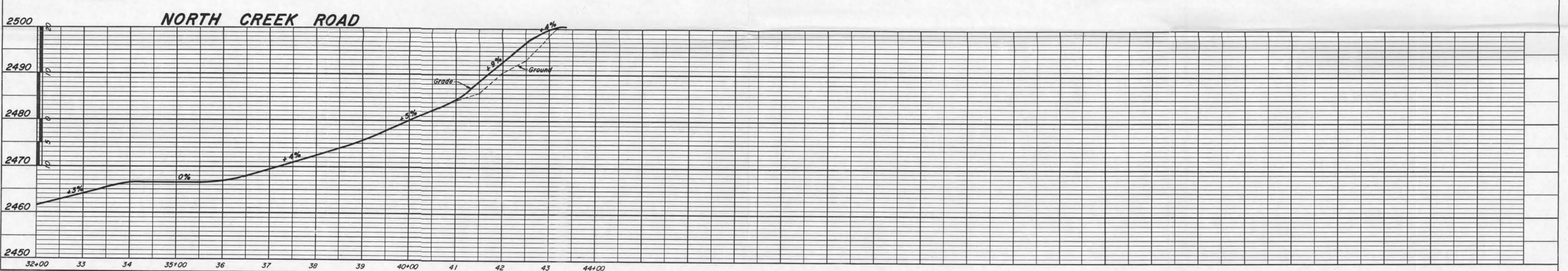
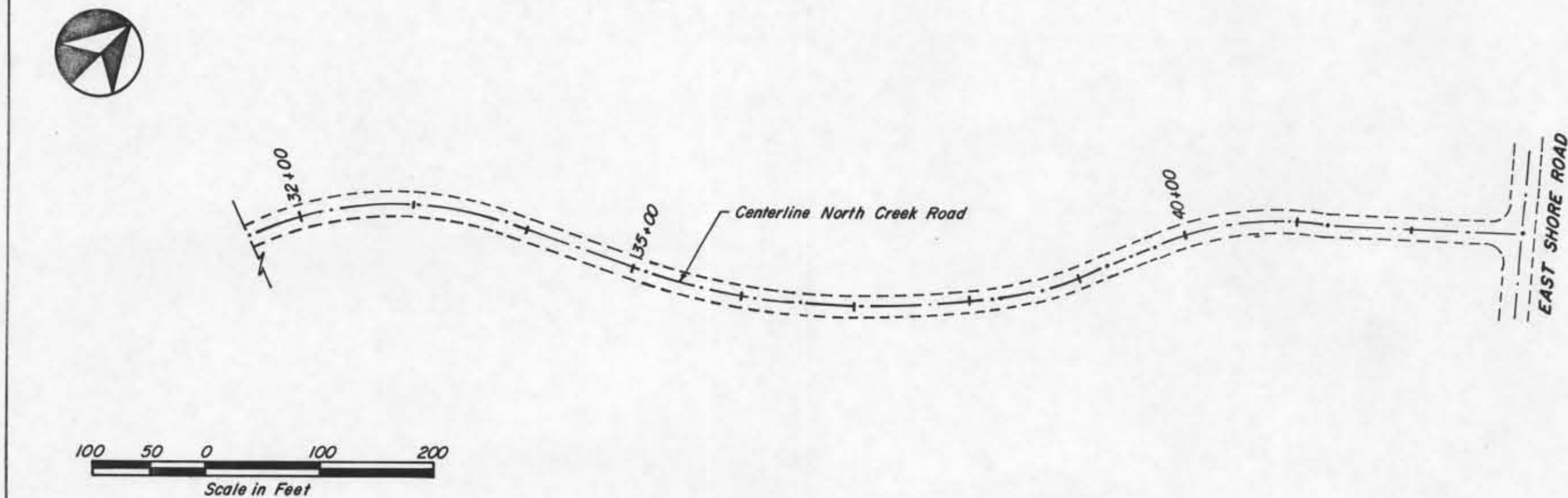
PLAN	DATE	
	BY	
	SURVEYED, PLANNED, AND DESIGNED BY	
	NOTE BOOK, ALIGNMENT CHECKED, BY, OF WAY CHECKED, NO.	



LEGEND

- Pigging Port Pressure Cleanout.
- End of Line Flushing Station.
- ▲ Air Relief Valve.
- Lateral Service Connection.
- End of Line Pigging Port Pressure Cleanout.

PROFILE	DATE	
	BY	
	SURVEYED, PLANNED, AND DESIGNED BY	
	NOTE BOOK, GRADES CHECKED, STRUCTURE NOTATIONS CHECKED, NO.	



	SANDY SHORES ADDITION	
	INTERIOR ROADS	
	Welch Engineering, Inc.	
	ENGINEERING & SURVEYING P. O. BOX 534 - DOVER HIGHWAY - SANDPOINT, IDAHO 83864 Ph. (208) 533-6681	
Drawn by:	C. Giffin	Date: 12-28
Checked by:		Scale: As Noted
		Sheet 2 of 2