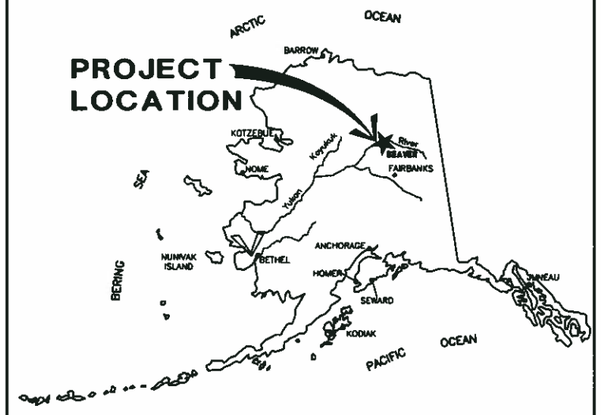
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES

MAY 2006

In Cooperation with the State of Alaska
Department of Environmental Conservation
VILLAGE SAFE WATER PROGRAM
U.S. Department of Agriculture, Rural
Economic and Community Development



Location Map

Project Number (Consultant) 9966 (VSW) 16306
VSW Project Engineer ROGER BURLEIGH
Onsite Construction Manager BRIAN ROE / SHAWN TAYLOR
Final Design (Date) MAY 2006
ADEC Approval (Date) N/A
Construction Period (From) 4/12/05 (To) 10/31/08
As-Builts (Date) 2/13/09

CRW ENGINEERING GROUP, LLC
3940 Arctic Blvd. Suite 300-Anchorage, Alaska 99503
PHONE: (907) 562-3252-FAX: (907) 561-2273

STATE OF ALASKA 49TH MICHAEL LEGUINECHE CE 11008 REGISTERED PROFESSIONAL ENGINEER

Consultant

Status:
RECORD DRAWINGS

Date:
FEBRUARY 2009

Project Status

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1 LEVEL CONTROLS (CONTROL CRAFT ATTACHMENT)

STATE OF ALASKA 49TH MICHAEL J. LEGUINECHE CE 11008 REGISTERED PROFESSIONAL ENGINEER

RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

M. Leguineche 2/09
NAME DATE

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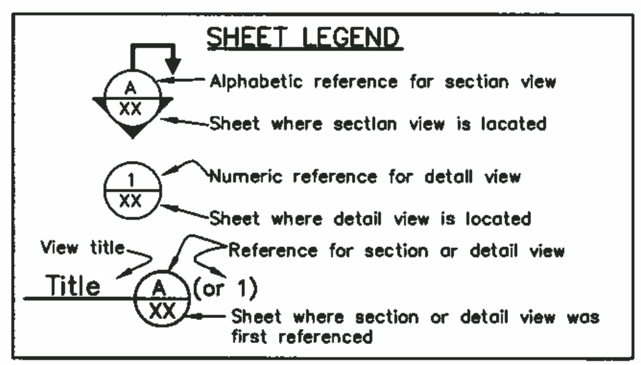
ABBREVIATIONS

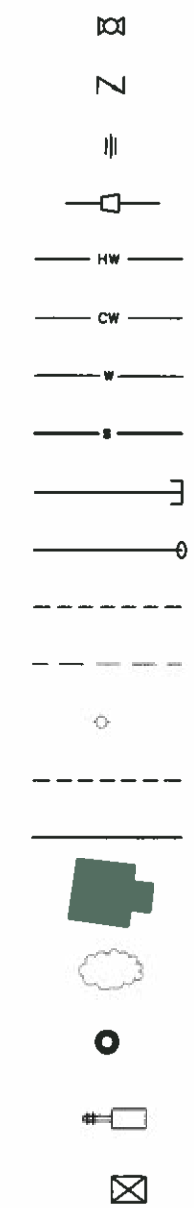
ALUM	ALUMINUM
AWH	AUTOMATIC WATER HEATER
CAP	CORRUGATED ALUMINUM PIPE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CW	COLD WATER
DIA	DIAMETER
DWG	DRAWING
E	EAST
EL	ELEVATION
FLG	FLANGE
FT	FEET, FOOT
GA	GAGE
GALV	GALVANIZED
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHYLENE
HGR	HEATED GLYCOL RETURN
HGS	HEATED GLYCOL SUPPLY
HW	HOT WATER
ID	INSIDE DIAMETER
INV	INVERT
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NO	NUMBER
OD	OUTSIDE DIAMETER
P	PROPERTY LINE
PT	PRESSURE TANK
REQ'D	REQUIRED
SIM	SIMILAR
S	SOUTH
STA	STATION
TYP	TYPICAL
TW	TREATED WATER
W	WEST

GENERAL NOTES

1. PRIOR TO STARTING CONSTRUCTION AT ANY SITE CONTRACTOR SHALL:
   A. OBTAIN ALL REQUIRED SIGNATURES ON HOMEOWNER AGREEMENT FORMS.
   B. FIELD VERIFY THE FLOOR PLANS SHOWN ON THESE DRAWINGS AND ADVISE THE ENGINEER IF CHANGES ARE REQUIRED.
   C. FIELD VERIFY THE SUITABILITY OF THE PROPOSED LOCATION FOR THE WATER AND SEWAGE HOLDING TANKS AND ADVISE THE ENGINEER IF CHANGES ARE REQUIRED.
   D. COORDINATE THE PROPOSED LOCATION OF ANY GRAVEL DRIVEWAYS WITH THE HOMEOWNER.
2. ALL CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER, TO INDUSTRY STANDARDS AND IN CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A CLEAN SET OF DRAWINGS SHOWING AS-BUILT INFORMATION. DRAWINGS SHALL BE KEPT CURRENT IN RED PENCIL ON A DAILY BASIS IN A NEAT, LEGIBLE FASHION. AS-BUILT DRAWINGS AND MANUFACTURER'S LITERATURE FROM INSTALLED EQUIPMENT SHALL BE GIVEN TO THE ENGINEER AT THE END OF THE PROJECT.
4. DISINFECT THE POTABLE WATER SYSTEM AFTER CONSTRUCTION AND PRIOR TO USE. FILL THE WATER HOLDING TANK WITH 100 GALLONS OF POTABLE WATER. ACTIVATE THE PRESSURE SYSTEM AND CHARGE THE WATER SYSTEM COMPONENTS. ADD 25 FLUID OUNCES OF CHLORINE BLEACH (5.25% AVAILABLE CHLORINE) TO THE WATER STORAGE TANK AND MIX WITH A CLEAN PADDLE. OPEN ALL TAPS AND FLUSH THE TOILET UNTIL THE CHLORINE SOLUTION IS PRESENT AT ALL PORTALS. CLOSE TAPS AND ALLOW THE CHLORINE SOLUTION TO CONTACT ALL INTERIOR SURFACES OF THE POTABLE WATER SYSTEM FOR A MINIMUM OF 3 HOURS. AT THE END OF THE CONTACT PERIOD DRAW APPROXIMATELY 1 QUART OF WATER FROM THE COLD WATER TAP AT THE LAVATORY AND DISCARD. TEST THE NEXT 2 OUNCE DRAW FROM THE COLD WATER TAP TO CONFIRM THAT AT LEAST 50 mg/L OF FREE CHLORINE RESIDUAL REMAINS AFTER THE 3 HOURS OF CONTACT. IF LESS THAN 50 mg/L OF FREE CHLORINE RESIDUAL REMAINS, REPEAT THE PREVIOUS STEPS UNTIL 50 mg/L REMAINS. AFTER THE COMPLETION OF THE TEST DISCHARGE ALL REMAINING WATER IN THE STORAGE TANK. RECHARGE THE STORAGE TANK WITH POTABLE WATER AND FLUSH TOILET AND OPEN PORTALS UNTIL A CHLORINE ODOR IS NO LONGER DETECTED AT EACH PORTAL. THE SYSTEM IS NOW READY FOR USE.
5. SECURE WATER TANKS WITH EARTHQUAKE STRAPS TO PROHIBIT MOVEMENT.
6. SEWAGE TANK PITS SHALL BE TEMPORARILY FENCED WHILE OPEN DURING CONSTRUCTION.



LEGEND



BALL VALVE
CHECK VALVE
DIELECTRIC UNION
REDUCER
HOT WATER
COLD WATER
WATER LINE
SEWER LINE
WATER FILL LINE
WATER OVER FLOW LINE
EDGE OF GRAVEL
TRAIL
UTILITY POLE
ITEM TO BE DEMOLISHED
NEW WALL OR DOOR
HOUSE TO RECEIVE BATHROOM UPGRADE
VEGETATION
BOLLARD
HOT WATER HEATER
ELECTRIC SERVICE

RECORD DRAWING CERTIFICATE

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NAME DATE 2/09

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES

GENERAL NOTES, LEGEND & ABBREVIATIONS

REVISION	BY	DATE

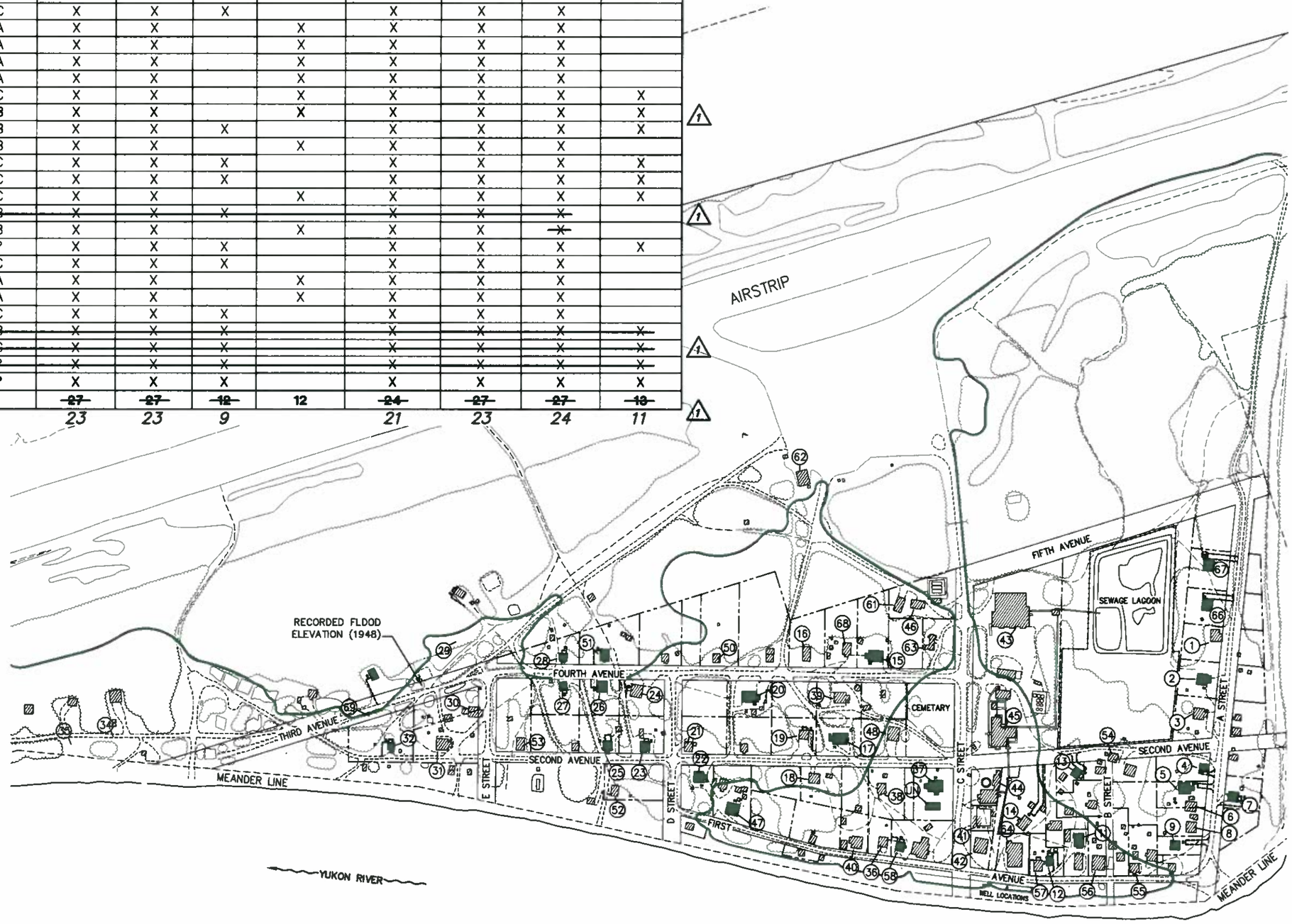
Project No.
Date MAY 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No.
SHEET G2 OF G4

File: 9956 Beaver_Record_G2 Legend.dwg

HOUSEHOLDS TO RECEIVE SERVICE

BLDG	OWNER	TYPE	TOILET	SINK	TUB	SHOWER	WATER HEATER	WATER TANK	SEWAGE TANK	KITCHEN SINK
2	David Hope	A	X	X				X	X	
5	Paul Williams SR.	A	~~X~~	~~X~~				~~X~~	X	
7	Wilma Pitka	C	~~X~~	~~X~~				~~X~~	X	~~X~~
9	James Hope	B	X	X				X	X	X
11	Elsie Pitka	C	X	X		X	X	X	X	X
12	Mary Sam	C	X	X	X		X	X	X	X
13	George Yatlin	C	X	X	X		X	X	X	
15	Selina Petruska	A	X	X		X	X	X	X	
17	Vivian Jureaby	A	X	X		X	X	X	X	
20	Anna Joseph	A	X	X		X	X	X	X	
22	Hannah Adams	A	X	X		X	X	X	X	
23	Alvin Winer	C	X	X		X	X	X	X	X
24	William Henry	B	X	X		X	X	X	X	X
25	Nora Billy	B	X	X	X		X	X	X	X
26	Roy Henry	B	X	X		X	X	X	X	
27	Heather Joseph	C	X	X	X		X	X	X	X
28	Sam Joseph	C	X	X	X		X	X	X	X
32	Jennie Pitka	C	X	X		X	X	X	X	X
~~37~~	~~Charleen Fisher~~	~~B~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	
47	Clifford Adams	B	X	X		X	X	X	~~X~~	
51	Charlie Yatlin	?	X	X	X		X	X	X	X
58	Thomas Adams	C	X	X	X		X	X	X	
66	Michael Williams	A	X	X		X	X	X	X	
67	Birdie Billy	A	X	X		X	X	X	X	
69	Dorthea Adams	C	X	X	X		X	X	X	
~~UN~~	~~Ann Fisher~~	~~B~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~
~~4~~	~~Barbara Solari~~	~~C~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~
~~UN~~	~~Charlotte Cruikshank~~	~~?~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~	~~X~~
70	Arthur Henry Jr.	?	X	X	X		X	X	X	X
Total Bathroom Fixtures			~~27~~ 23	~~27~~ 23	~~12~~ 9	12	~~24~~ 21	~~27~~ 23	~~27~~ 24	~~13~~ 11



LEGEND

- (35) BUILDING NUMBER
- (UN) UN-NUMBERED BUILDING
- EXISTING BUILDINGS
- BUILDINGS TO RECEIVE SERVICE

SERVICE TYPE

- A INSIDE REMODEL – HUD HOME
- B INSIDE REMODEL – NON HUD HOME
- C OUTSIDE ADDITION

N

150 0 75 150 300
(SCALE IN FEET)

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NAME M. Legueux DATE 2/09

STATE OF ALASKA 49 TH MICHAEL LEGUINECH 11006 REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

STATE OF ALASKA 49 TH MICHAEL LEGUINECH 11006 REGISTERED PROFESSIONAL ENGINEER

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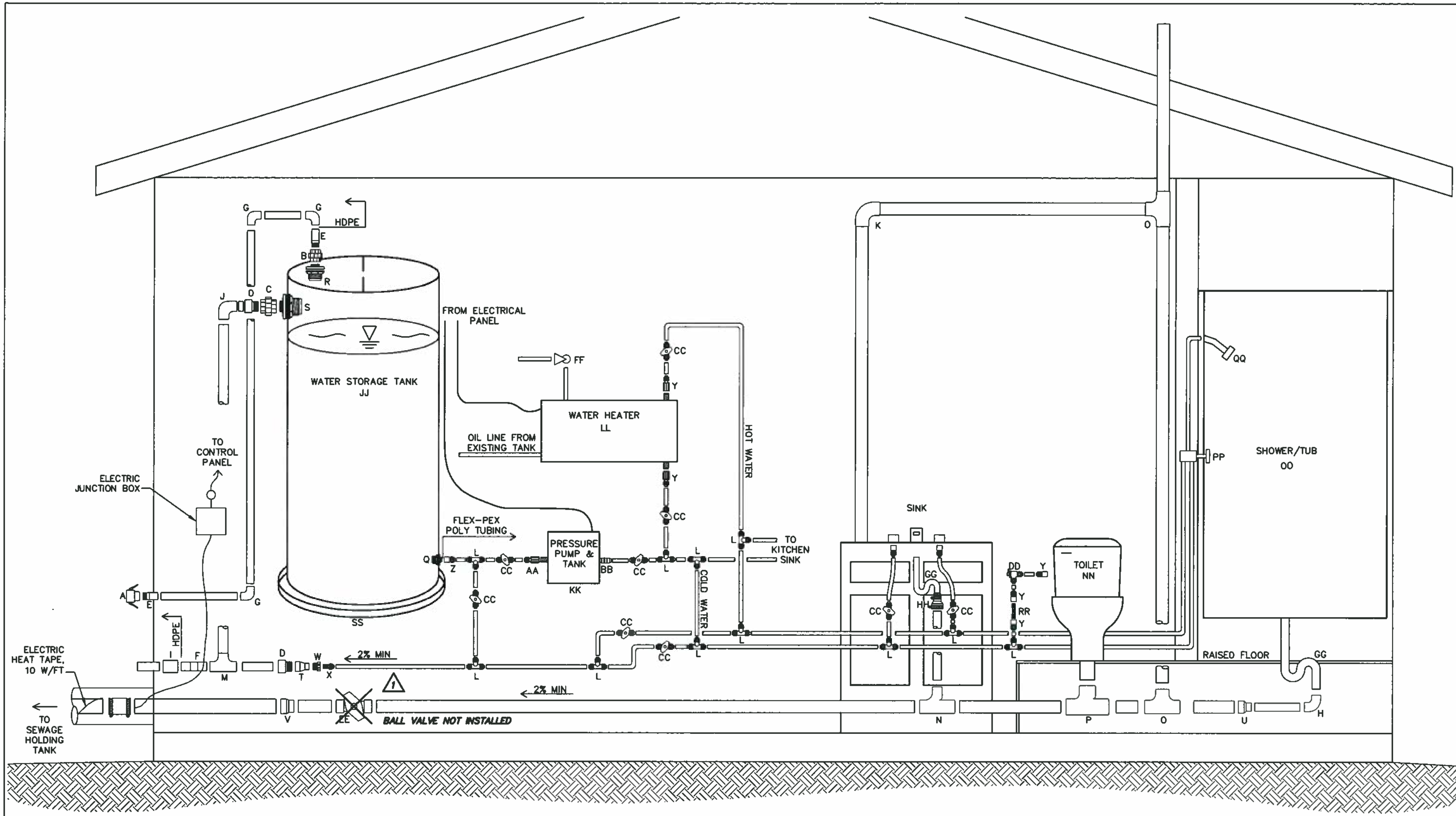
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
GENERAL LAYOUT AND BUILDINGS TO RECEIVE SERVICE

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

Project No. 9966
Date MAY 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No.
SHEET G3 OF G4

File: 9966 Denver_Record_G3 General Layout.dwg



EQUIPMENT SCHEDULE

A. ALUMINUM KAMLOCK ADAPTER: 1½"FKAM X 1½"MPT
B. 1½" SCH. 80 PVC UNION
C. 3" SCH. 80 PVC UNION
D. 3" SCH. 80 PVC MALE PIPE ADAPTER
E. 1½" POLY-CAM TRANSITION FITTING: PART NO. 710-0150-S6
F. 3" POLY-CAM TRANSITION FITTING: PART NO. 730-0300/80-S6
G. 1½" HDPE ELECTROFUSION 90° EL
H. 2" ABS 90° EL
I. 3" HDPE ELECTROFUSION COUPLING
J. 3" SHC. 80 PVC 90° EL
K. 3" ABS 90° EL
L. TEE: ~~FLAIR IT, PART NO. 07820 (½P x ½P x ½P)~~ △1
M. 3" SCH. 80 PVC TEE
N. 3x3x2 ABS SANITARY TEE
O. 3x3x3 ABS TEE
P. 3x3x3 ABS SANITARY TEE
Q. ¾" SCH. 80 PVC BULKHEAD FITTING (¾" EXTERNAL MPT)
R. 1½" SCH. 80 PVC BULKHEAD FITTING (1½" EXTERNAL MPT)
S. 3" SCH. 80 PVC BULKHEAD FITTING (3" EXTERNAL MPT)
T. 3x2 THREADED REDUCER
U. 3x2 ABS REDUCING COUPLING
V. 4x3 ABS REDUCING COUPLING
W. THREADED FITTING: 2" NPT OUTSIDE & ½" NPT INSIDE
X. MALE PIPE ADAPTER: ~~FLAIR IT, PART NO. 07842 (½"P x ½"MPT)~~
Y. FEMALE PIPE ADAPTER: ~~FLAIR IT, PART NO. 07841 (½"P x ½"FPT)~~ △1
Z. SWIVEL COUPLING: ~~FLAIR IT, PART NO. 06856 (½"P x ¾"FPT)~~
AA. FLOJET 1820-001 (½" PEX x PUMP PLUG IN PORT)
BB. FLOJET 1820-003 (½" PEX x ½" NPT)
CC. STRAIGHT STOP VALVE: ~~FLAIR IT, PART NO. 07880 (½"P x ½"P)~~ △1
DD. ANGLE STOP VALVE: ~~FLAIR IT, PART NO. 07885 (½"P x ½"P)~~
△1 ~~EE. 3" ABS BALL VALVE~~
FF. PVC SCH. 80 PRESSURE RELIEF VALVE (TERMINATE 6" ABOVE FLOOR)
GG. P TRAP
HH. DRAIN AND TRAP CONNECTOR
II. 4"x4" 12" LONG KENAFLEX EPDM RUBBER HOSE AND 4 SS CLAMPS
JJ. 200 GALLON, 31"ø X 68" HIGH, COVERED POLYETHYLENE VERTICAL STORAGE TANK WITH HINGED LID
KK. FLOJET 2840-000 WATER PRESSURE SYSTEM
LL. TOYOTOMI OIL MISER INSTANTANEOUS OIL-FIRED WATER HEATER (BS 36UFF)
MM. 24" VANITY WITH ONE PEICE WHITE COUNTER TOP AND SINK
NN. CAROMA CARAVELLE 270 (MODEL # 989760 WHITE)
OO. TWO PEICE FIBERGLASS SHOWER OR THREE PEICE FIBERGLASS TUB
PP. MIXING VALVE
QQ. SHOWER HEAD
RR. QUIKCHEK CHECK VALVE (½" MPT x ½" MPT)
SS. 36"øX2" HIGH 24 GAUGE GALVANIZED STEEL DRIP PAN

△1 ***NOTE:***
ALL FLEX-PEX TUBING AND FLAIR-IT FITTINGS WERE SUBSTITUTED WITH AQUAPEX PARTS.

NOTE:
1. ALL FLEX-PEX TUBING SHALL BE ½" ID, SDR9 PEX-a B137.5 REINFORCED POLY-TUBING. USE TUBING WITH BLUE MARKINGS FOR ALL COLD WATER LINES, PART NO. 06063. USE TUBING WITH RED MARKINGS FOR ALL HOT WATER LINES, PART NO. 06163.
2. ALL HDPE PIPING SHALL BE SDR-11.
3. ALL STEEL FITTINGS SHALL BE 316 STAINLESS STEEL.

File: 9966 Beaver_Record_G4 Schematic.dwg

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VILLAGE SAFE WATER

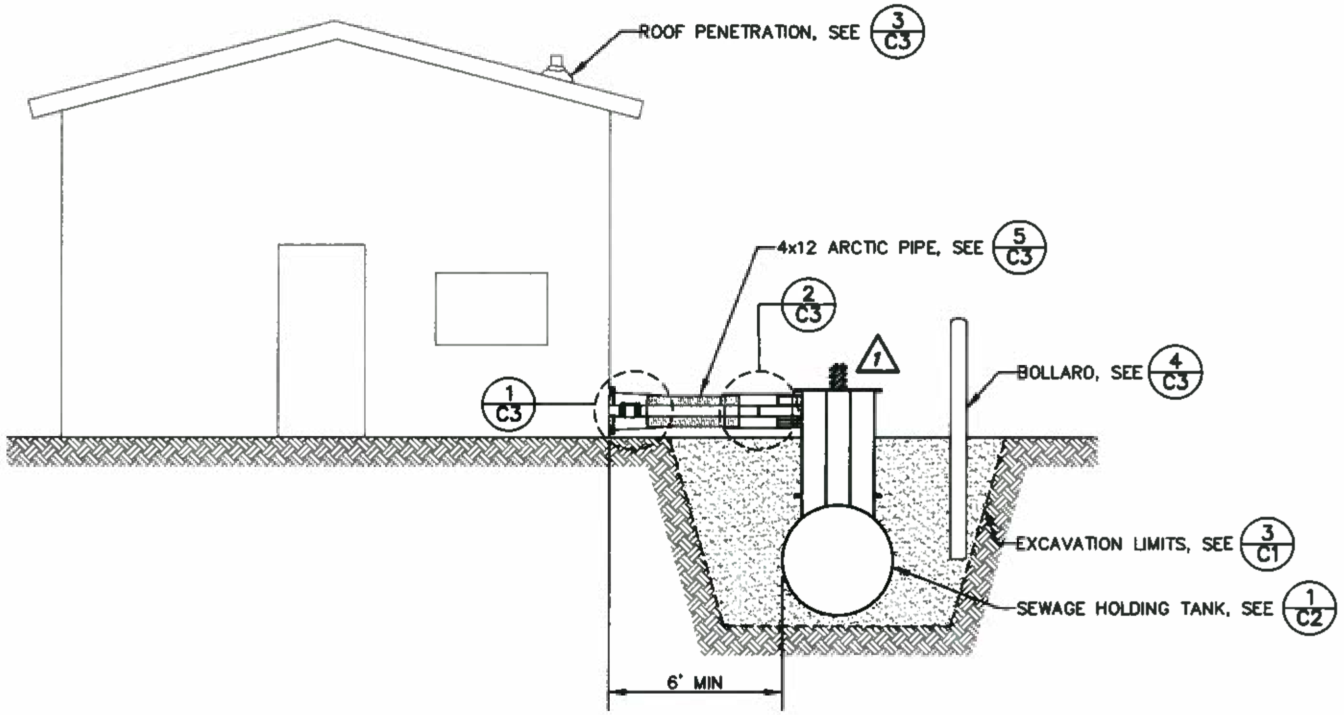
CRW ENGINEERING GROUP, LLC

VILLAGE OF BEAVER SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SCHEMATIC & EQUIPMENT SCHEDULE

REVISION	BY	DATE
△1 AS-BUILT	MJL	2/09

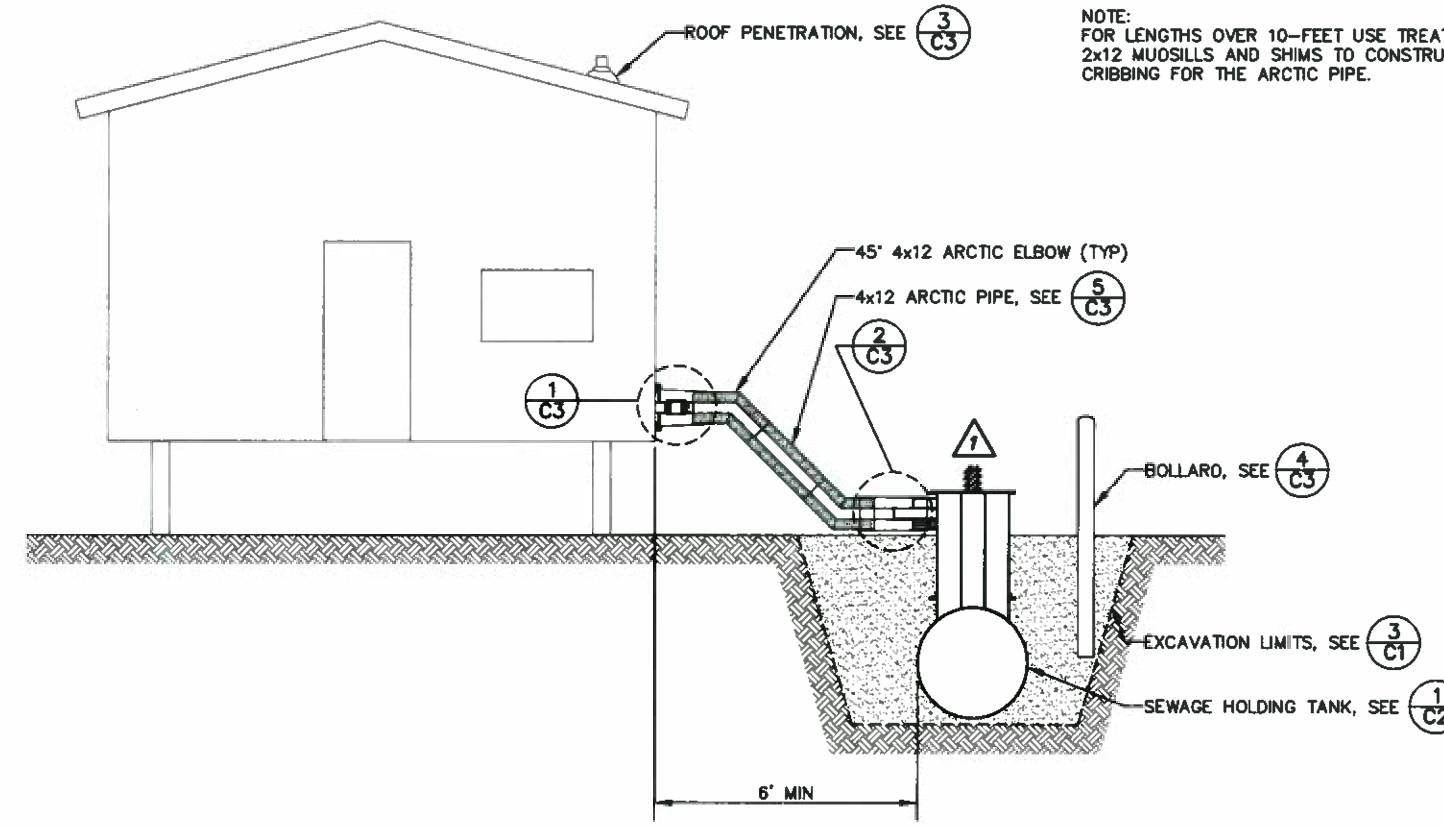
Project No. 9966
Date MAY 2006
Designed MJL
Drawn
Approved DSY

Sheet No.
SHEET G4 OF G4

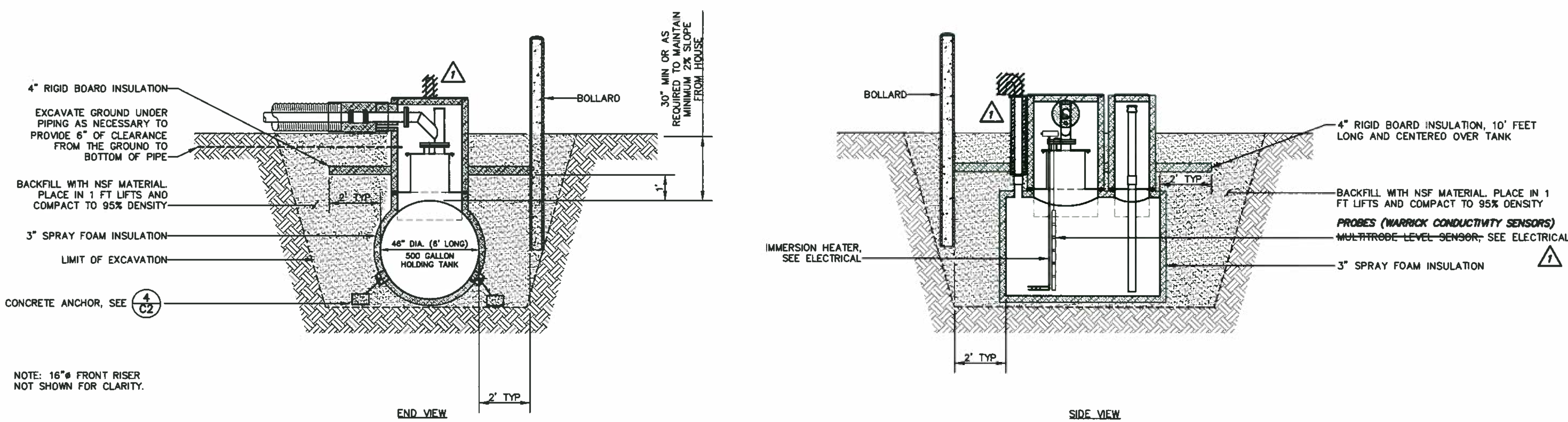


1 HOLDING TANK LAYOUT - HOUSE AT GRADE
NTS

NOTE:
FOR LENGTHS OVER 10-FEET USE TREATED 2x12 MUDSILLS AND SHIMS TO CONSTRUCT CRIBBING FOR THE ARCTIC PIPE.



2 HOLDING TANK LAYOUT - HOUSE ON PILES
NTS



NOTE: 16"ø FRONT RISER NOT SHOWN FOR CLARITY.

3 SEWAGE HOLDING TANK SECTIONS
NTS

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VILLAGE SAFE WATER

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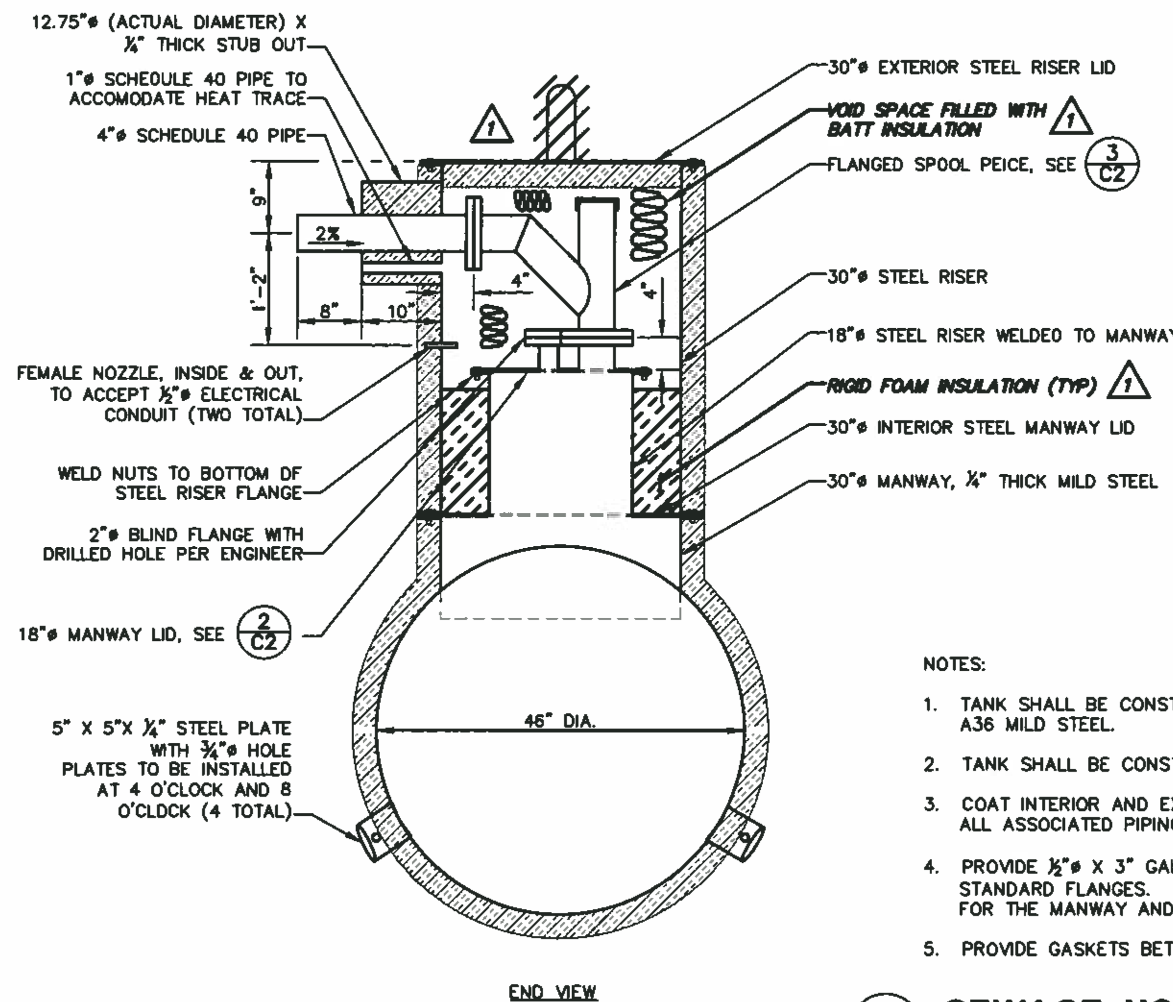
VILLAGE OF BEAVER SANITATION IMPROVEMENTS
BATHROOM UPGRADES
HOLDING TANK LAYOUT & HOLDING TANK SECTIONS

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

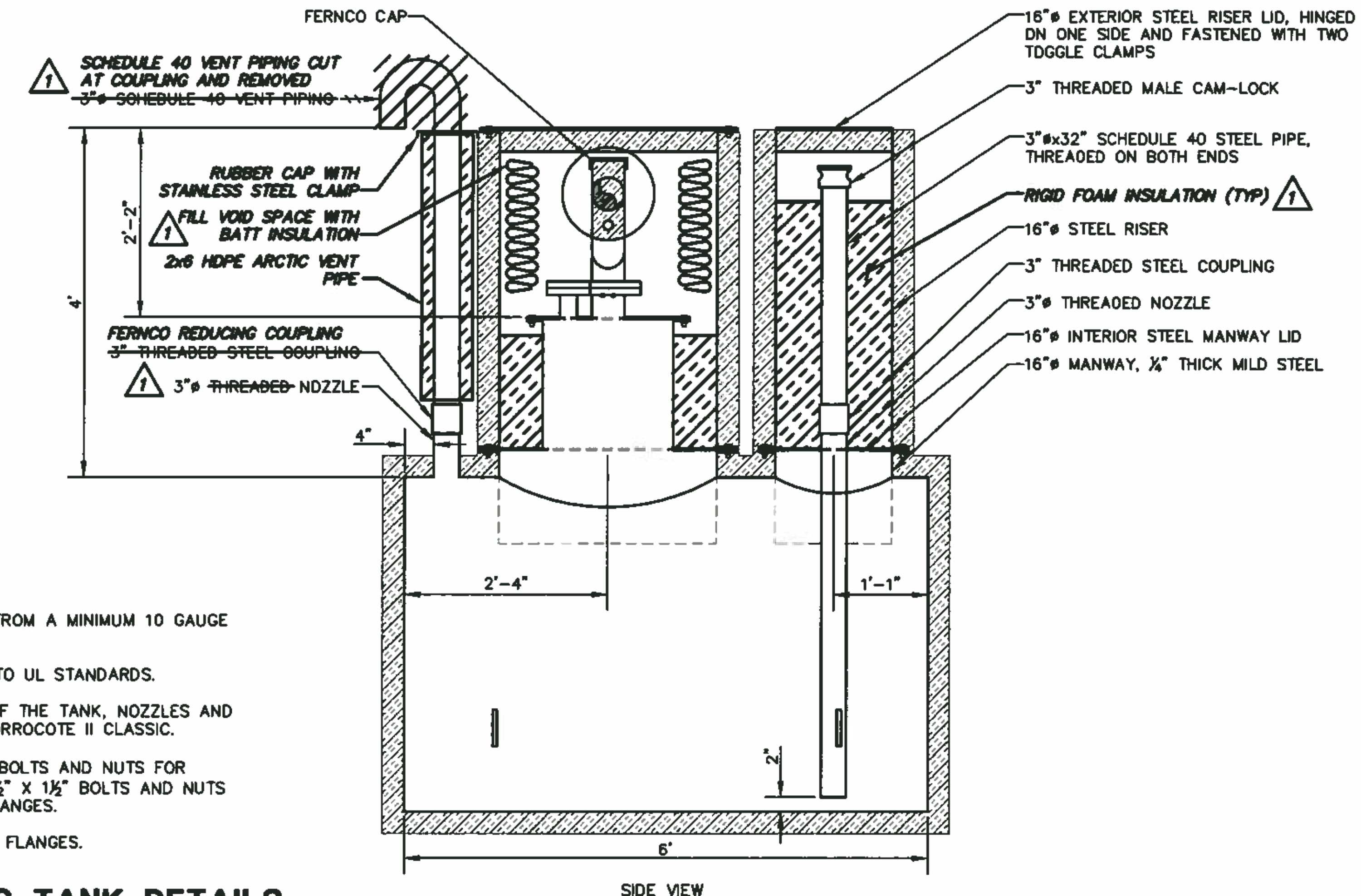
Project No.
Date MAY 2006
Designed MJL
Drawn MJL
Approved DSY

Sheet No.
SHEET C1 OF C20

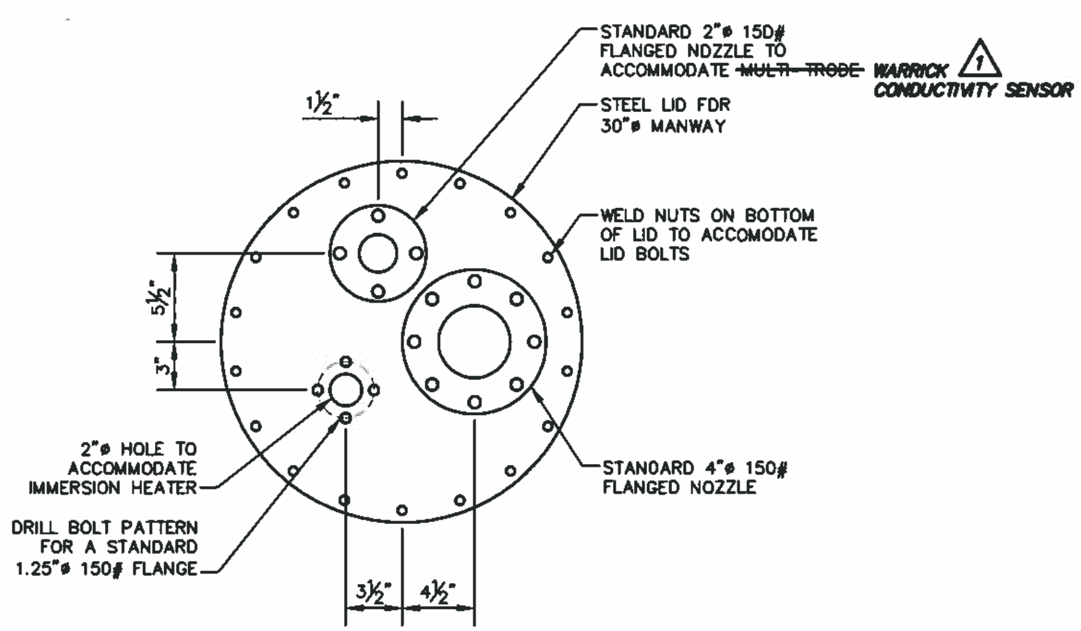


NOTES:

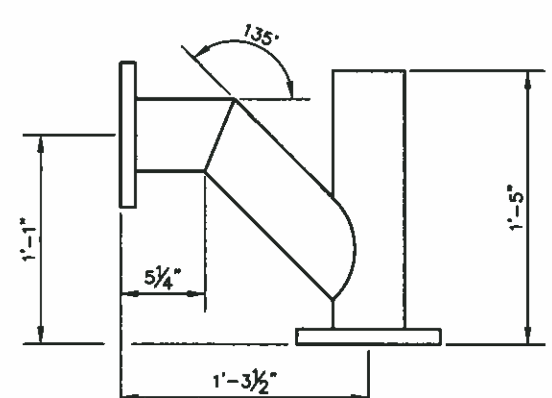
1. TANK SHALL BE CONSTRUCTED FROM A MINIMUM 10 GAUGE A36 MILD STEEL.
2. TANK SHALL BE CONSTRUCTED TO UL STANDARDS.
3. COAT INTERIOR AND EXTERIOR OF THE TANK, NOZZLES AND ALL ASSOCIATED PIPING WITH CORROCOTE II CLASSIC.
4. PROVIDE ½"ø X 3" GALVANIZED BOLTS AND NUTS FOR STANDARD FLANGES. PROVIDE ½" X 1½" BOLTS AND NUTS FOR THE MANWAY AND RISER FLANGES.
5. PROVIDE GASKETS BETWEEN ALL FLANGES.



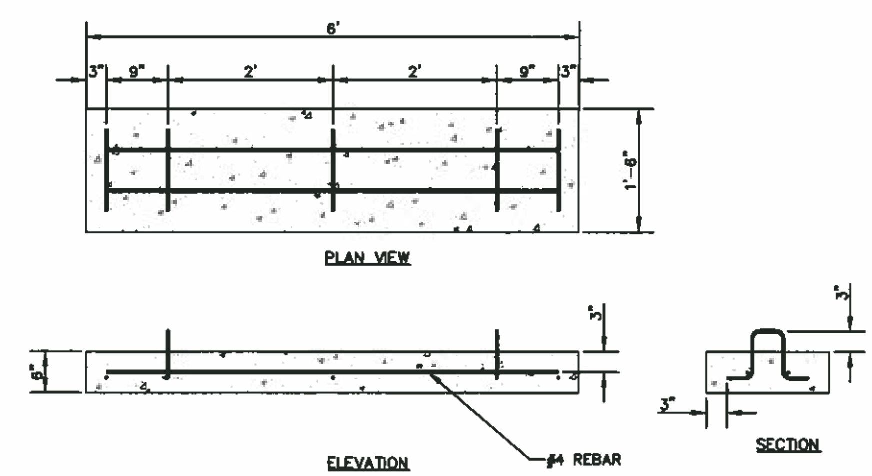
1 SEWAGE HOLDING TANK DETAILS
NTS



2 LID DETAILS
NTS



3 SPOOL DETAILS
NTS



4 ANCHOR DETAILS
C1
NTS

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NAME: M. Lagunede DATE: 2/09

STATE OF ALASKA — 49th — Michael Lagunede CE 11008 — REGISTERED PROFESSIONAL ENGINEER

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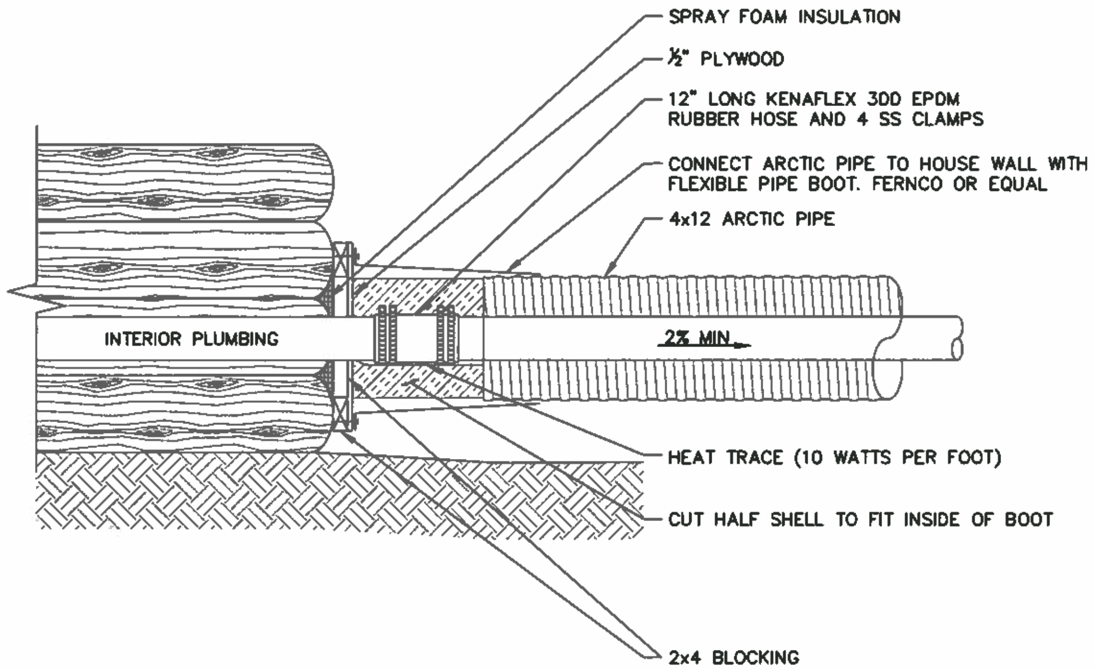
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SEWAGE HOLDING TANK DETAILS

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

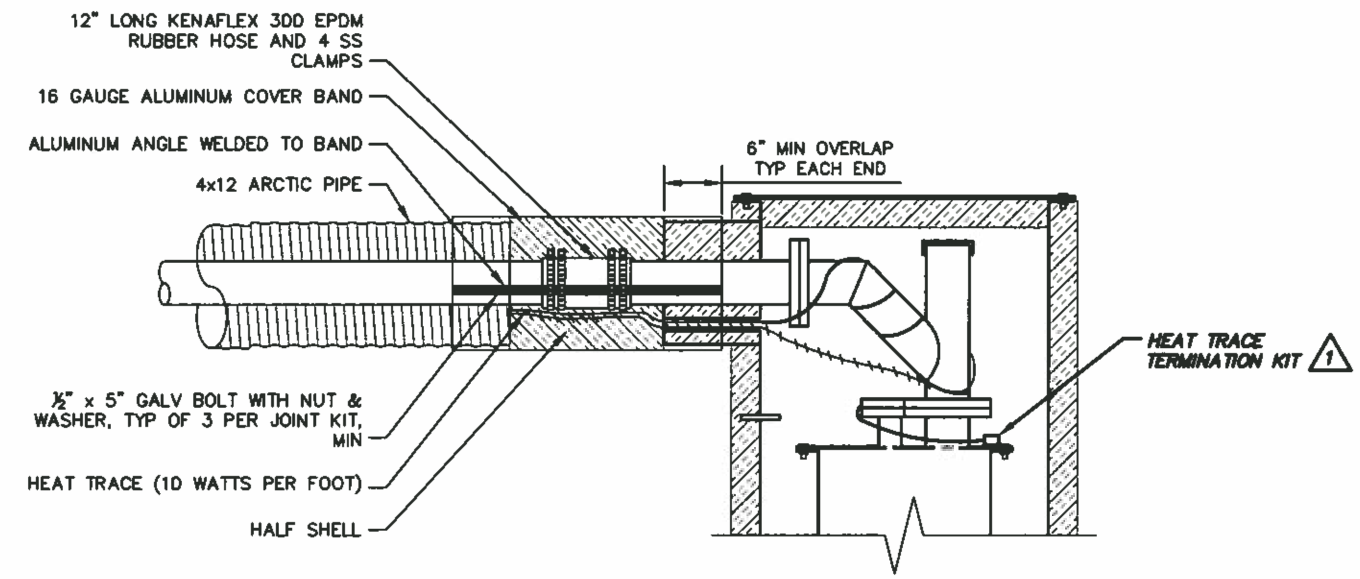
Project No.
Date: MAY 2006
Designed: M.L.
Drawn: M.L.
Approved: DSY

Sheet No.
SHEET C2 OF C20

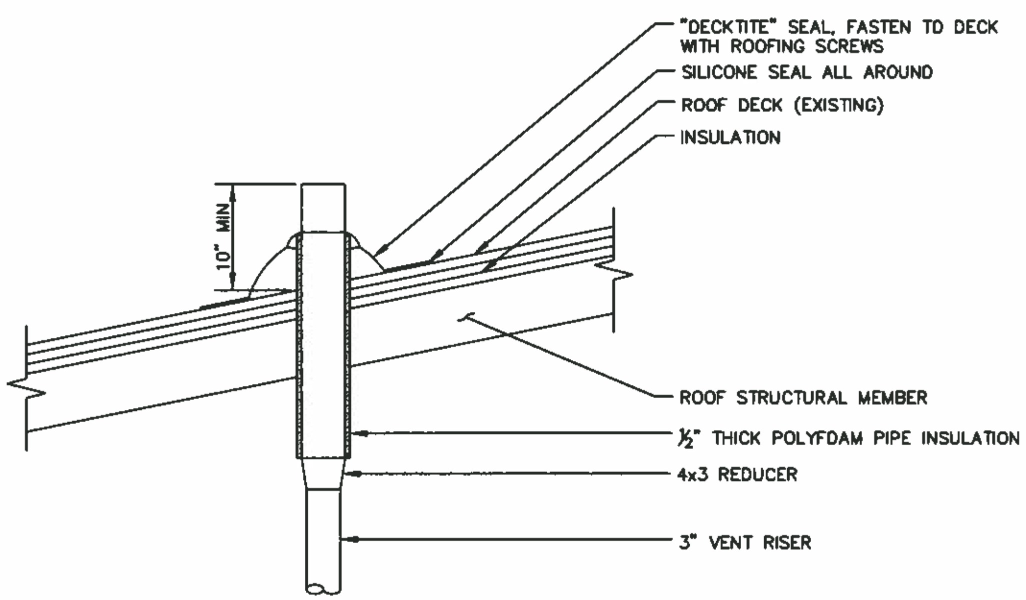
File: 9966 Beaver_Record_C1-C3 Details.dwg



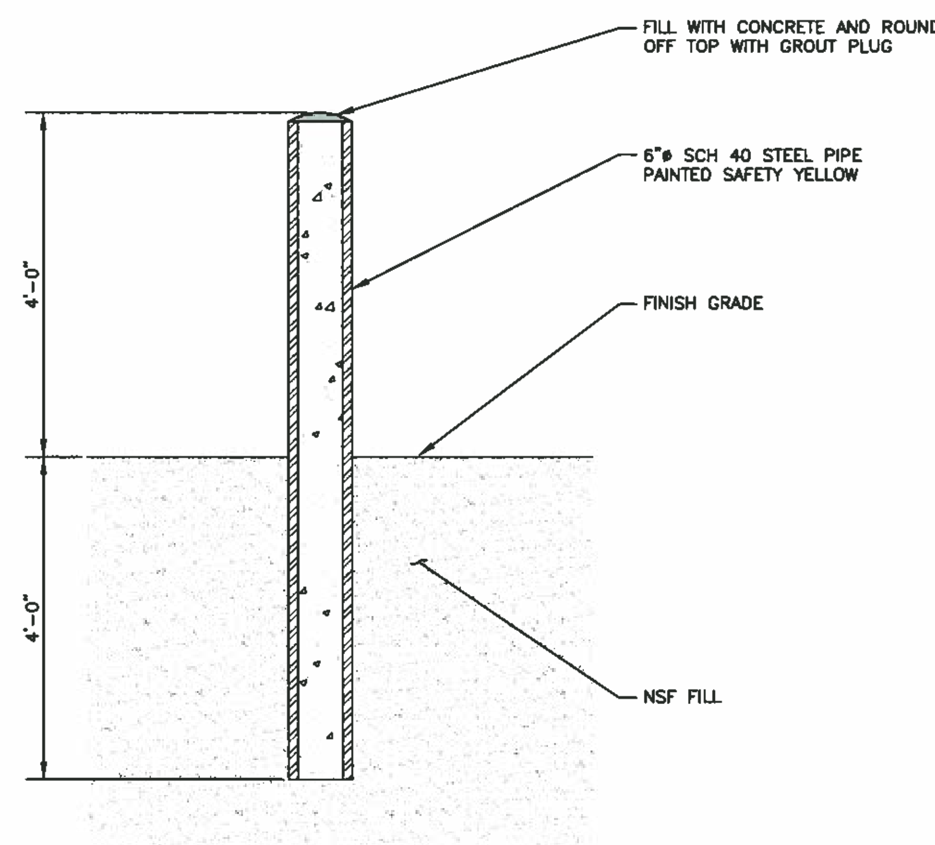
1 — **HOUSE CONNECTION DETAIL**
NTS



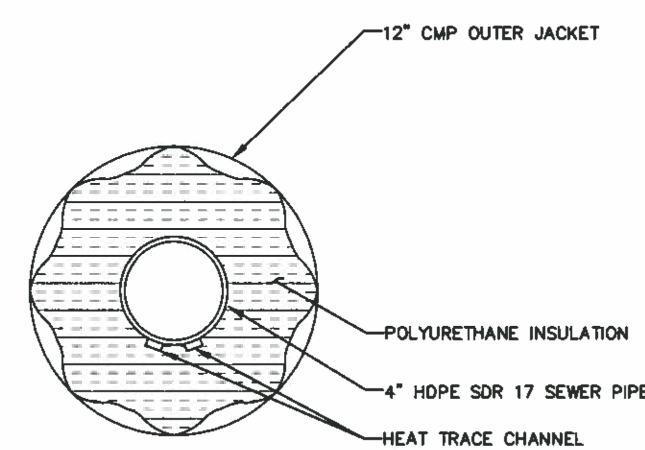
2 — **TANK CONNECTION & JOINT KIT DETAIL**
NTS



3 — **ROOF PENETRATION DETAIL**
NTS



4 — **BOLLARD DETAIL**
NTS



5 — **ARCTIC PIPE DETAIL**
NTS

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME M. Legerwood DATE 2/09

STATE OF ALASKA — 49th — Michael Legerwood, CE 11006 — REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

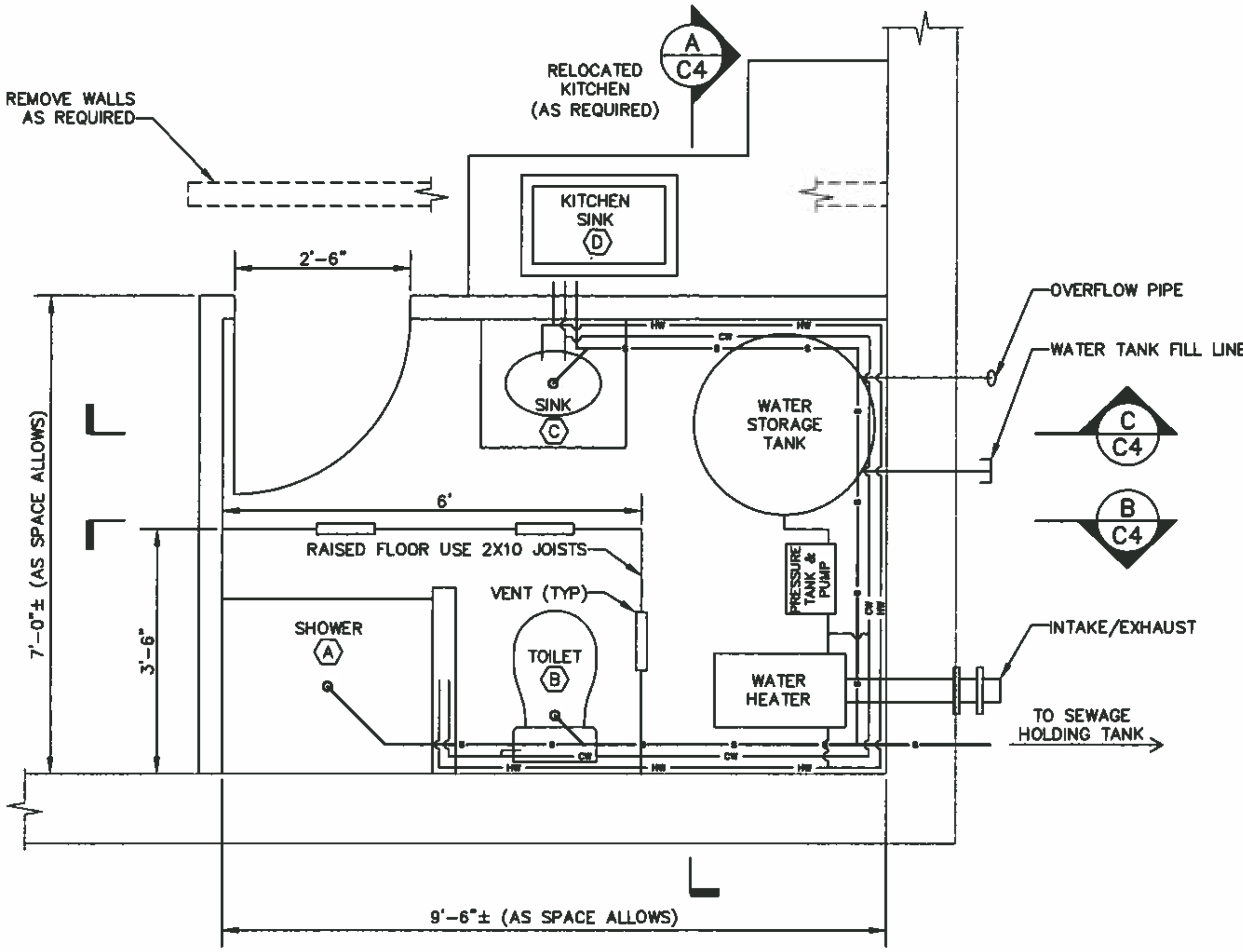
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
DETAILS

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

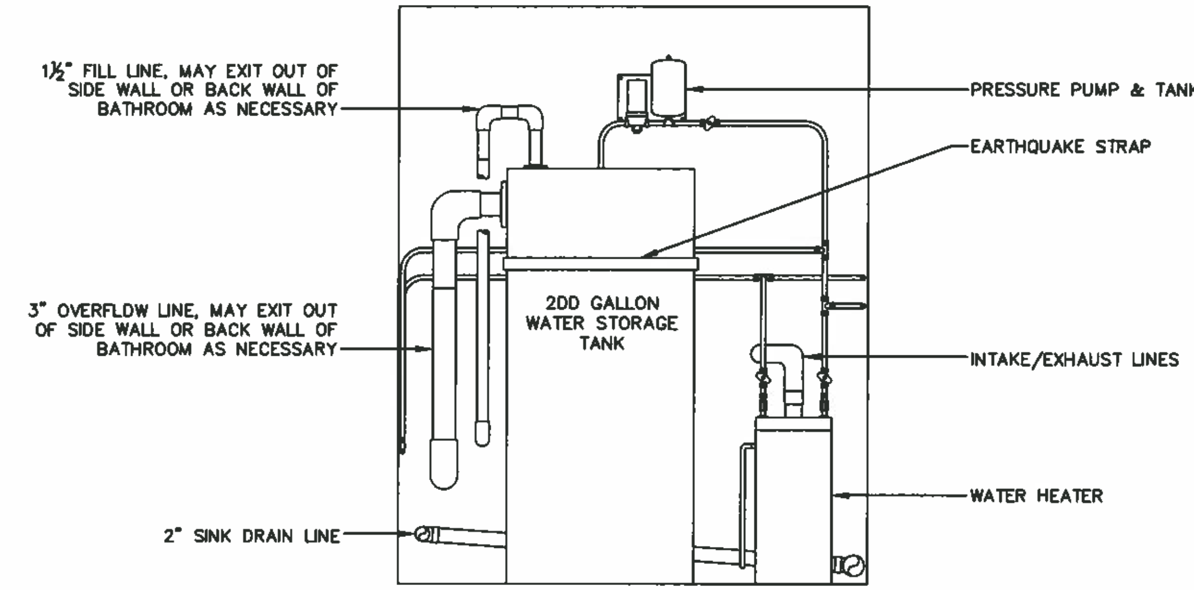
Project No. | Date MAY 2006 | Designed MJL | Drawn MJL | Approved DSY

Sheet No.
SHEET C3 OF C20

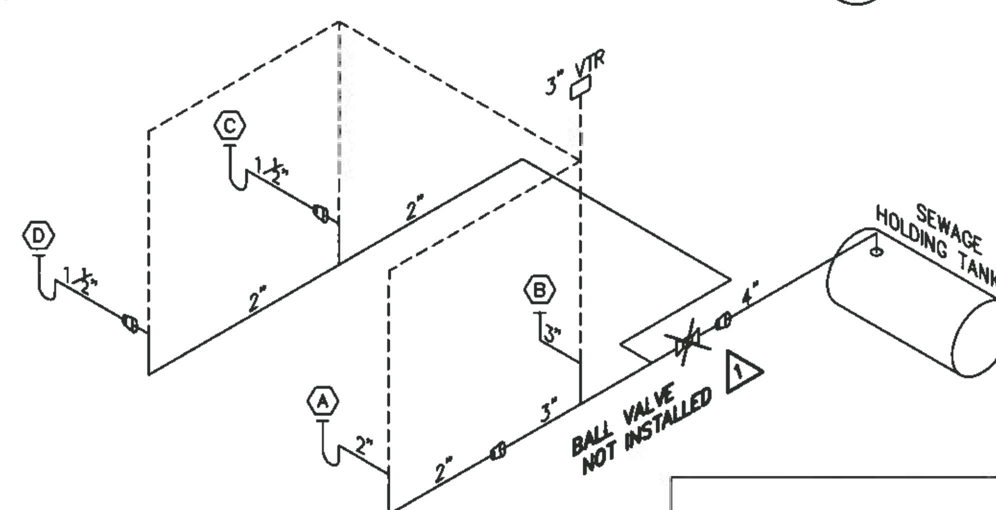
File: 9966 Beaver_Record_C1-C3 Details.dwg



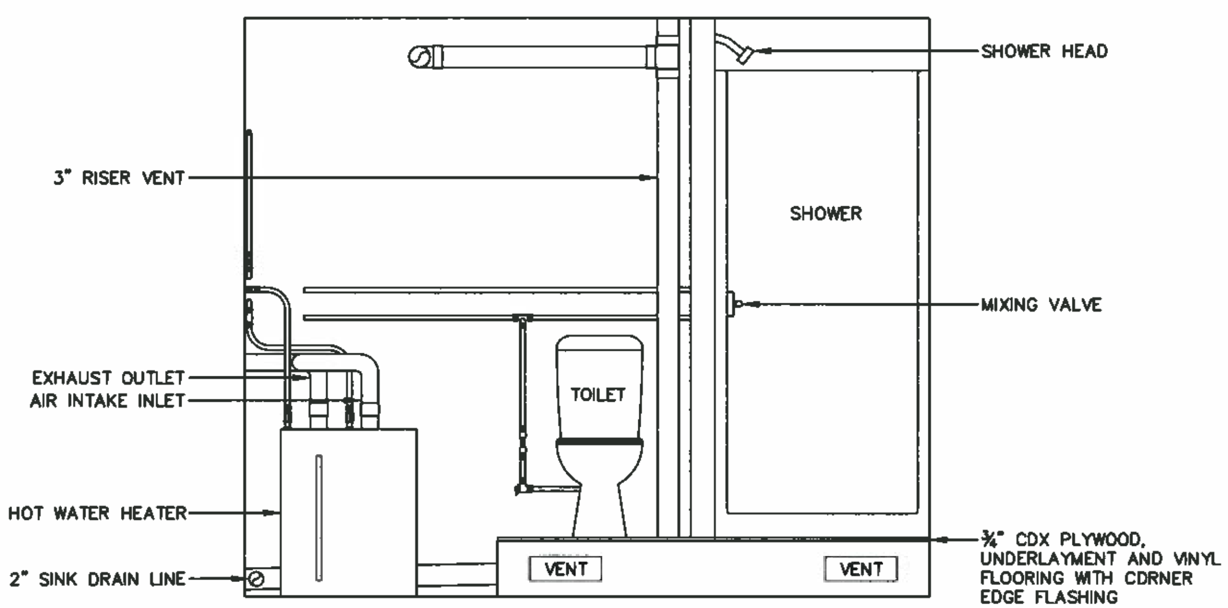
1 INTERIOR BATHROOM ADDITION PLAN
NTS



A SECTION A
NTS



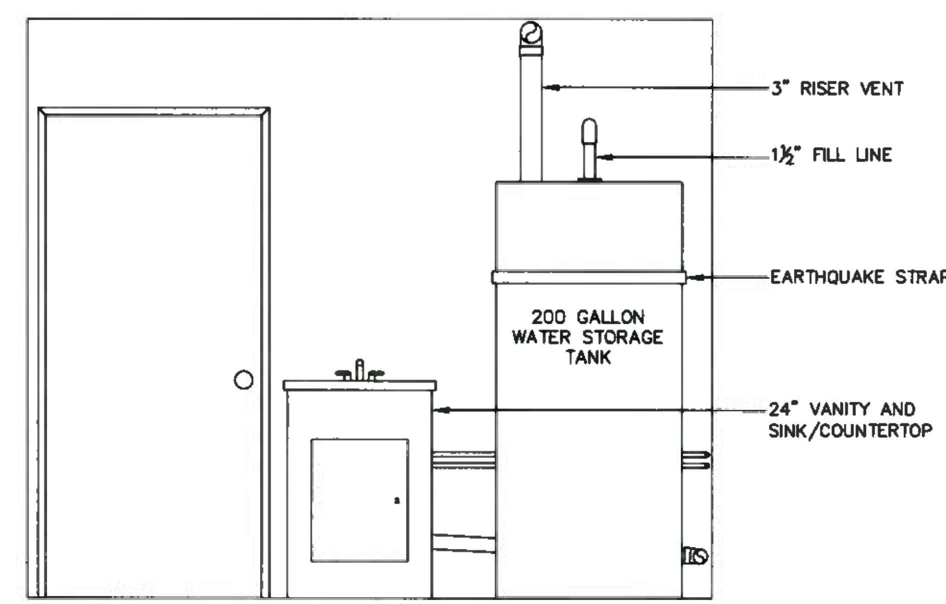
2 SEWER ISOMETRIC
NTS



B SECTION B
NTS

NOTES:

1. WATER AND SEWER LINE LOCATIONS ARE REPRESENTATIVE ONLY. LOCATE LINES IN THE FIELD AS NECESSARY.
2. CUT 2-INCH⌀ HOLES IN INTERIOR FLOOR JOISTS OF RAISED FLOOR AT 18-INCHES ON CENTER.



C SECTION C
NTS

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME DATE

STATE OF ALASKA 49TH MICHAEL LEGUINECHE CE 11006 REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

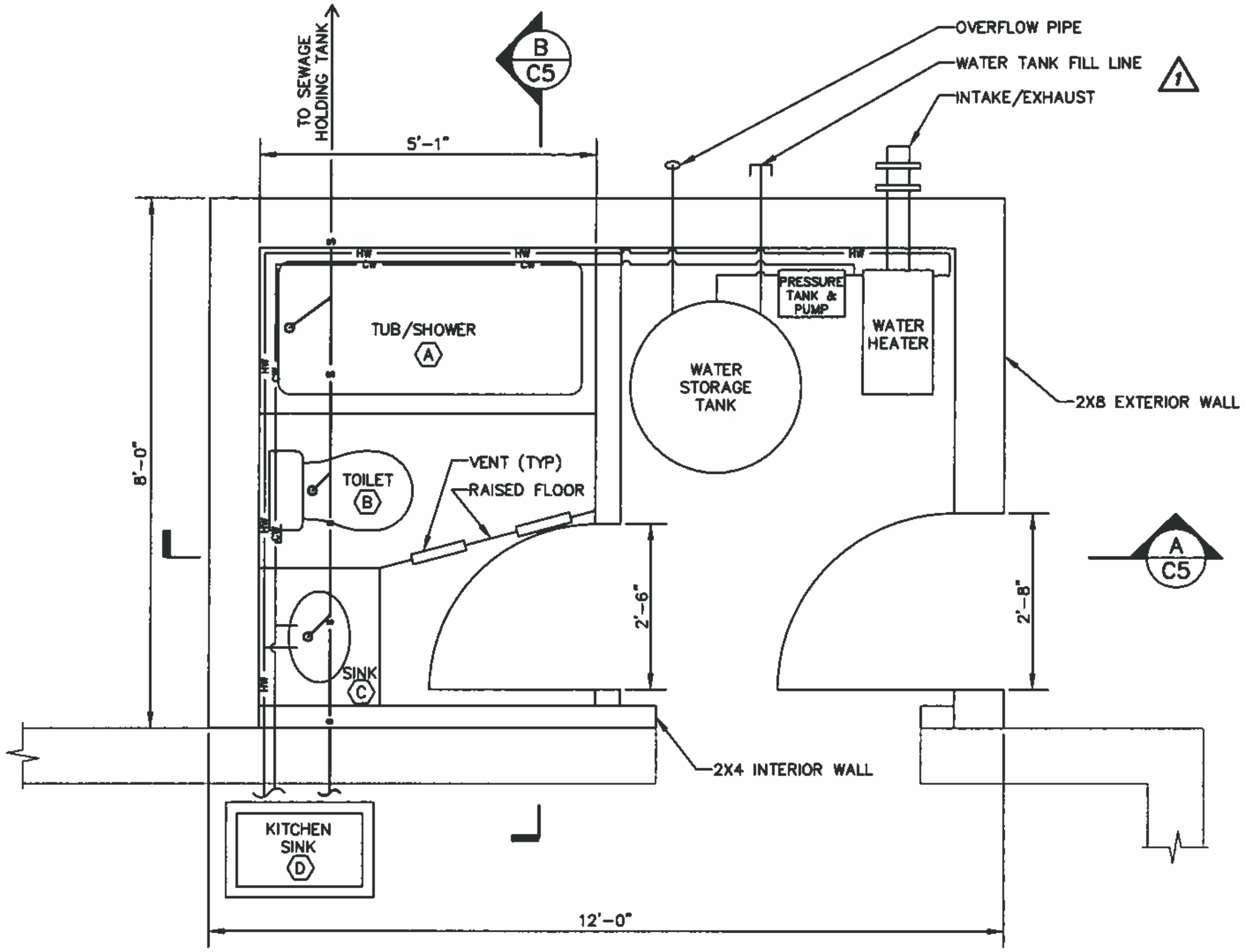
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
INTERIOR BATHROOM ADDITION
LAYOUT, ELEVATIONS AND ISOMETRIC

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

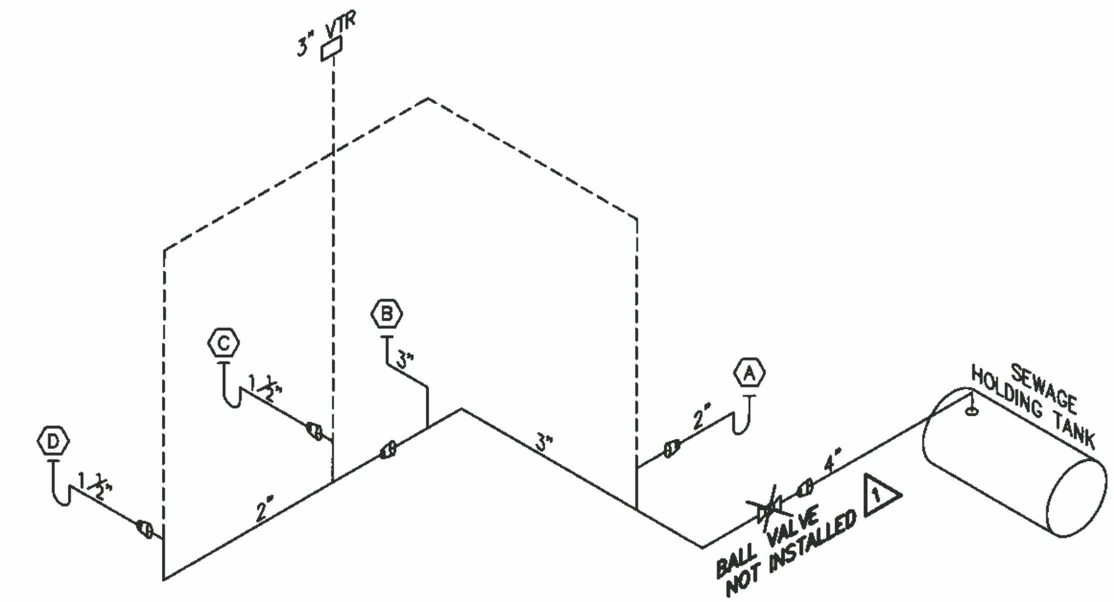
Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved DSY

Sheet No.
SHEET C4 OF C20

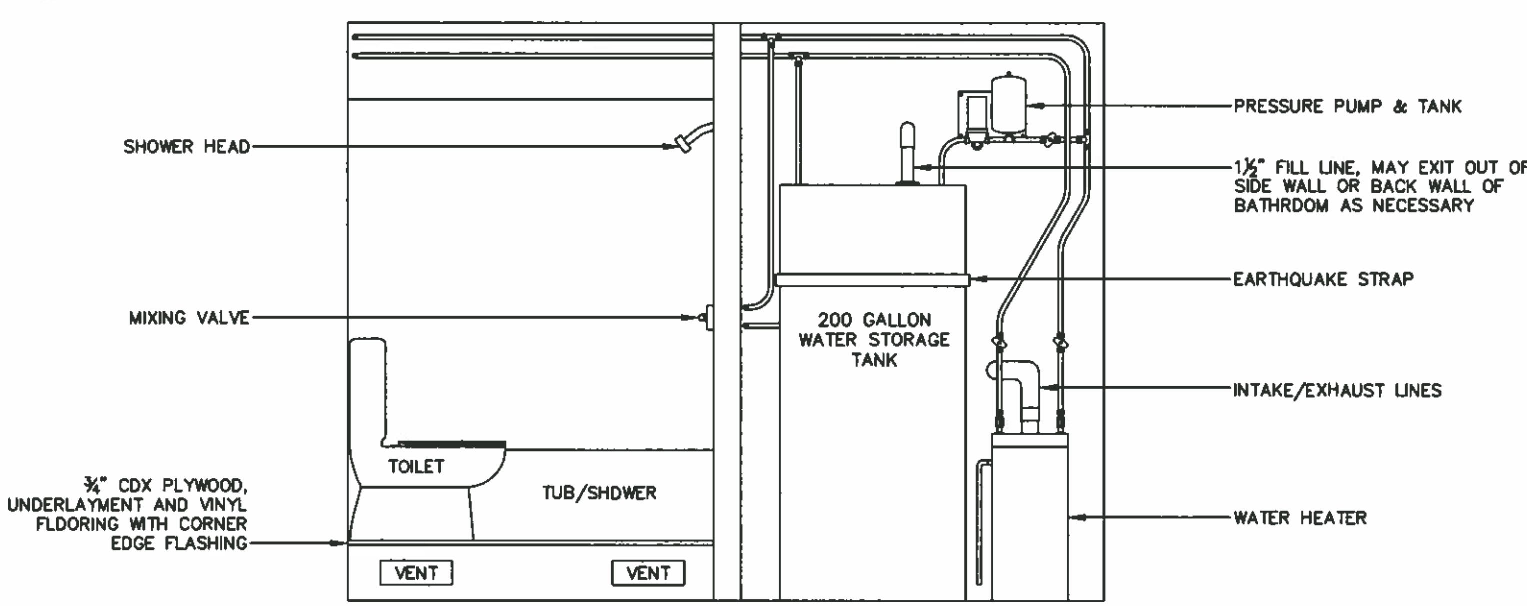
File: 9966 Beaver_Record_C4-C8 Bathroom Layouts.dwg



1 EXTERIOR BATHROOM ADDITION
NTS



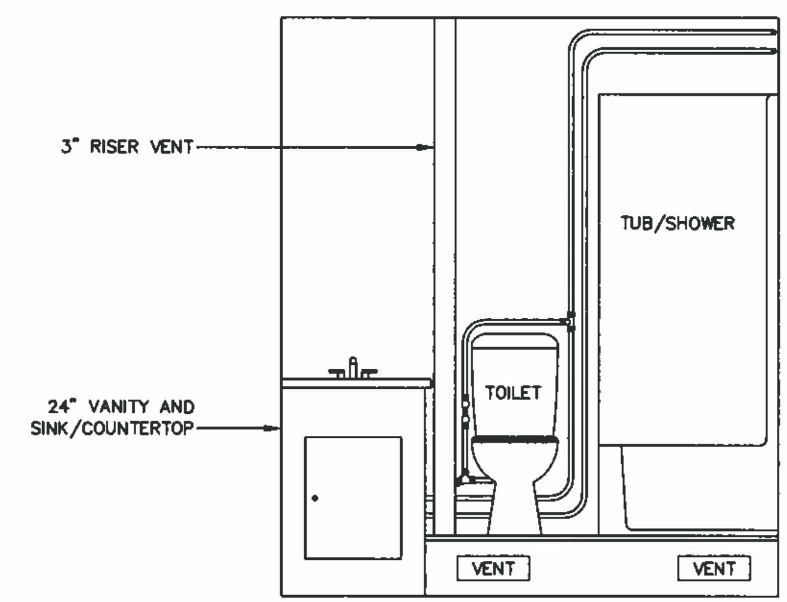
2 SEWER ISOMETRIC
NTS



A SECTION A
NTS

NOTES:

1. WATER AND SEWER LINE LOCATIONS ARE REPRESENTATIVE ONLY. LOCATE LINES IN THE FIELD AS NECESSARY.
2. CUT 2-INCH⌀ HOLES IN INTERIOR FLOOR JOISTS OF RAISED FLOOR AT 18-INCHES ON CENTER.



B SECTION B
NTS

RECORD DRAWING CERTIFICATE
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NAME DATE 2/09

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
EXTERIOR BATHROOM ADDITION
LAYOUT, ELEVATIONS AND ISOMETRIC

REVISION	BY	DATE
1 AS-BUILT	MJL	2/09

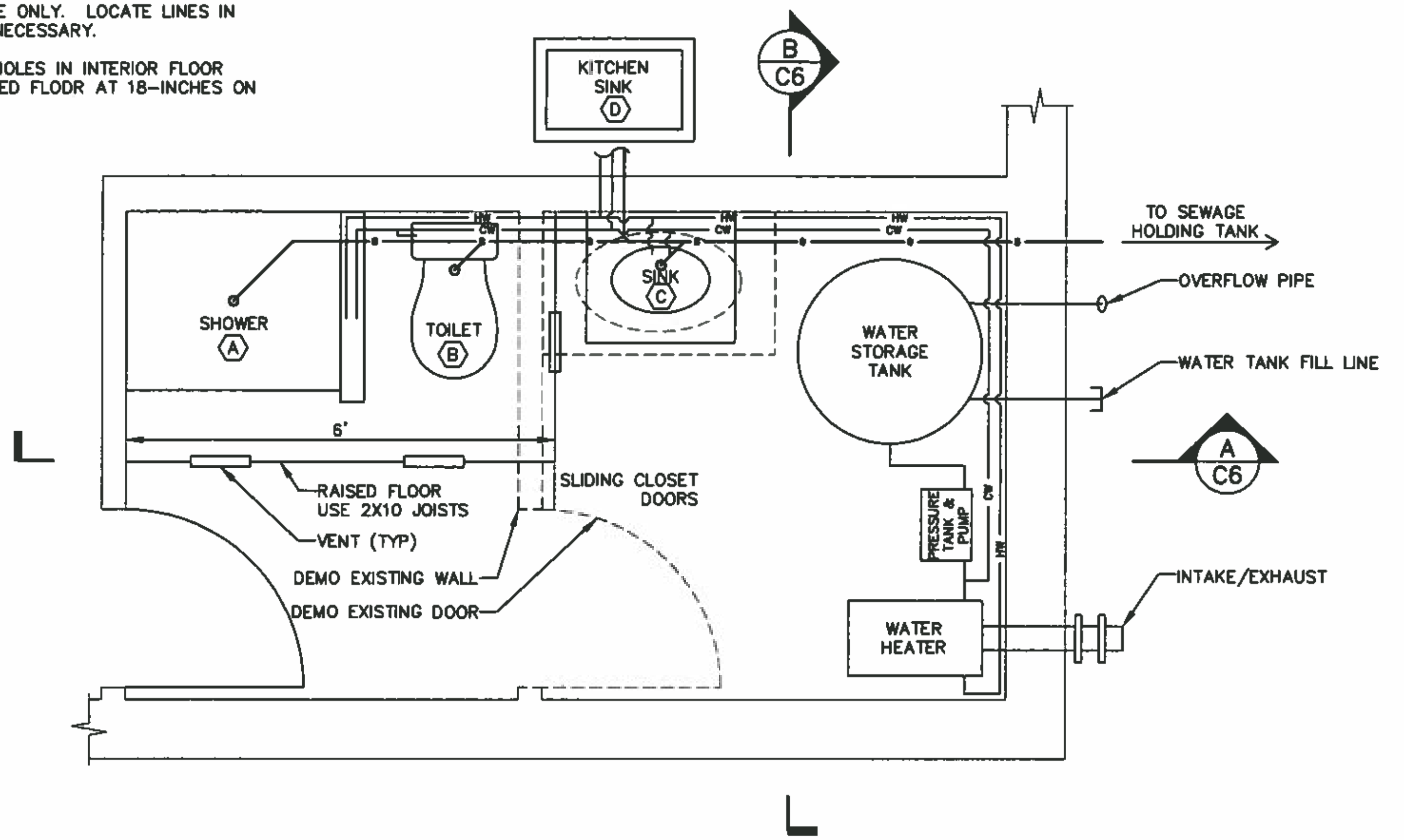
Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved DSY

Sheet No.
SHEET C5 OF C20

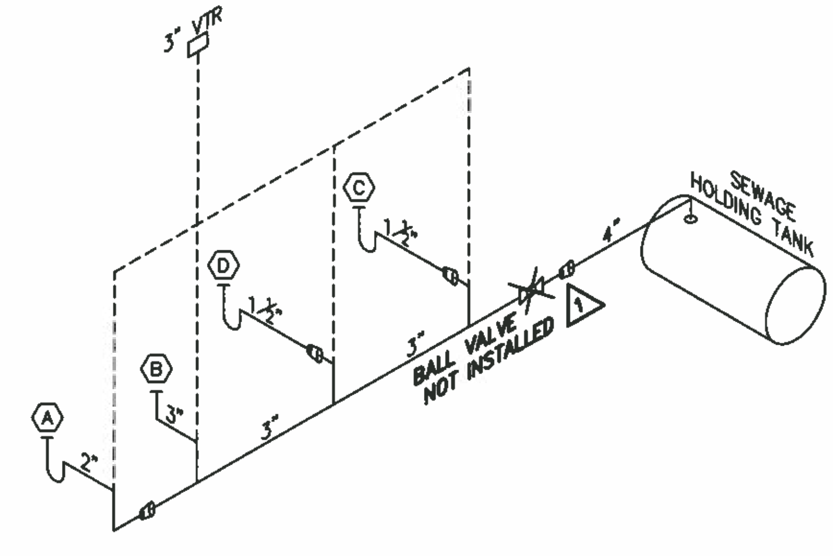
File: 9966 Beaver_Record_C4-C8 Bathroom Layouts.dwg

NOTES:

1. WATER AND SEWER LINE LOCATIONS ARE REPRESENTATIVE ONLY. LOCATE LINES IN THE FIELD AS NECESSARY.
2. CUT 2-INCH⌀ HOLES IN INTERIOR FLOOR JOISTS OF RAISED FLOOR AT 18-INCHES ON CENTER.



1 — INTERIOR HUD HOME BATHROOM ADDITION
NTS



2 — SEWER ISOMETRIC
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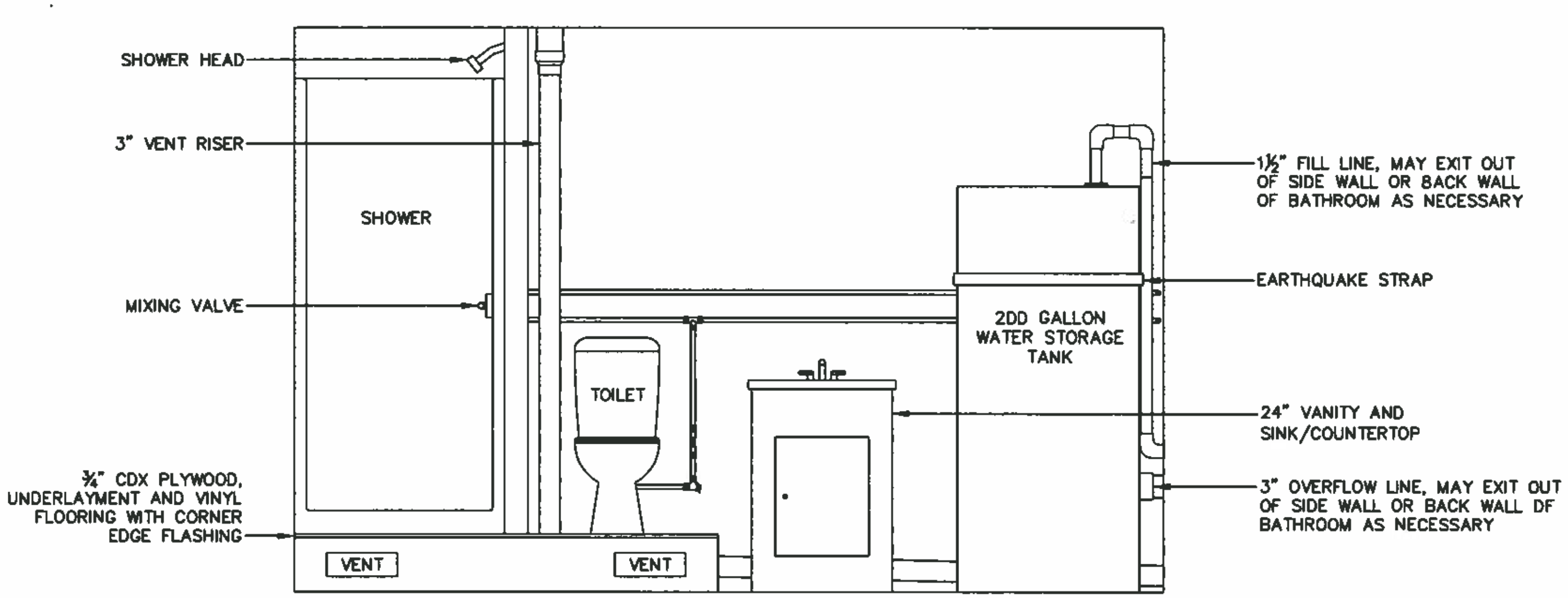

A — SECTION A
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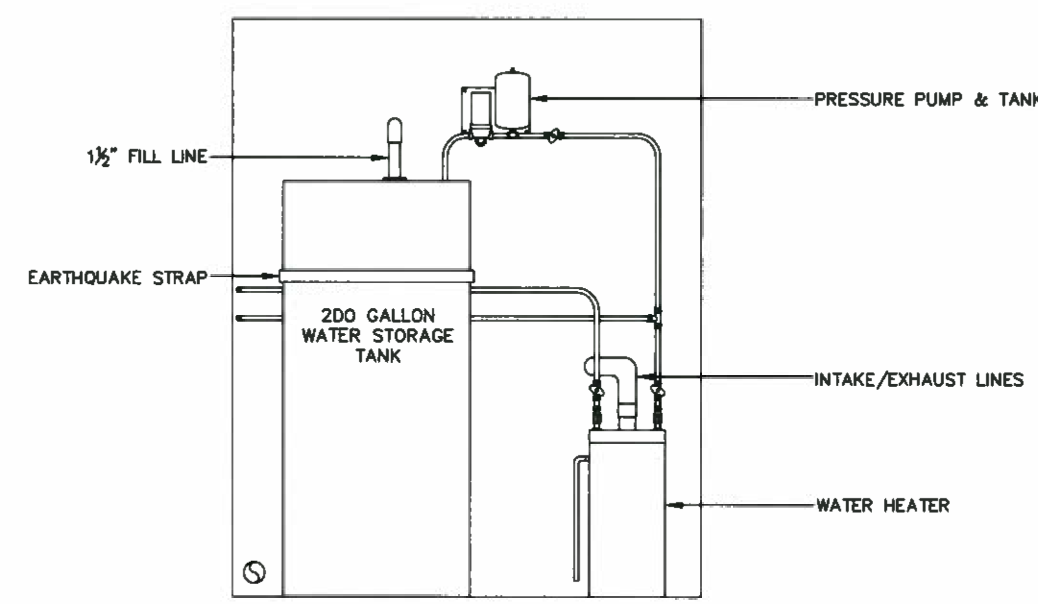


B — SECTION B
NTS

RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME: M. Legunec (signature) DATE: 2/09

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203, ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252 FAX: (907) 561-2273

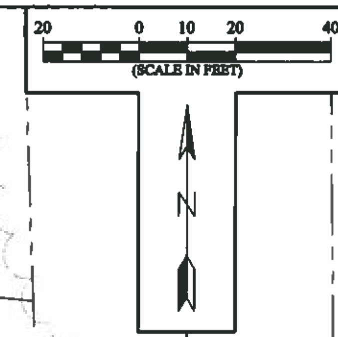
VILLAGE OF BEAVER SANITATION IMPROVEMENTS
BATHROOM UPGRADES HUD HOME BATHROOM ADDITION
LAYOUT, ELEVATIONS AND ISOMETRIC

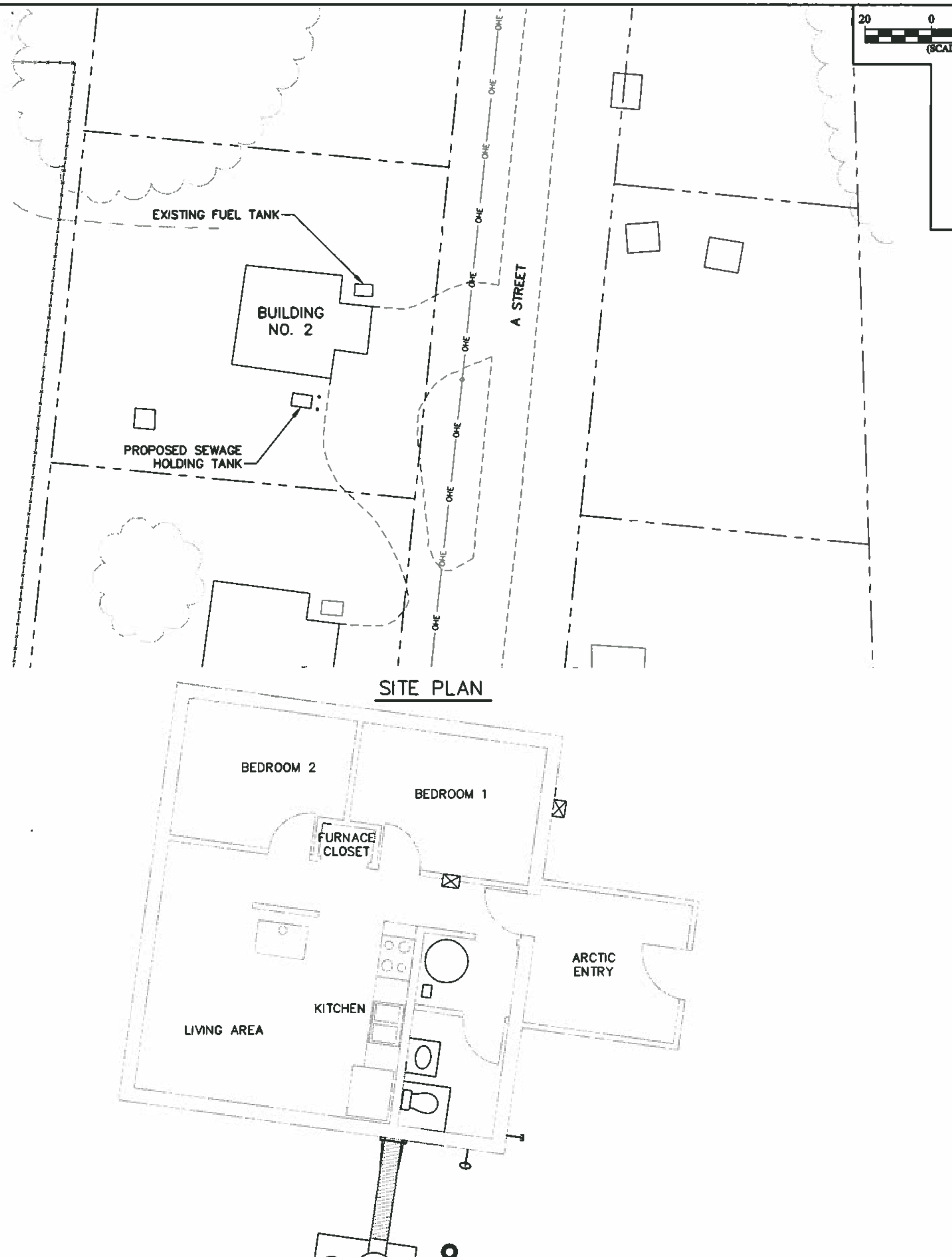
REVISION	BY	DATE
1 AS-BUILT	MJL	2/09

Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved DSY

Sheet No. SHEET C6 OF C20

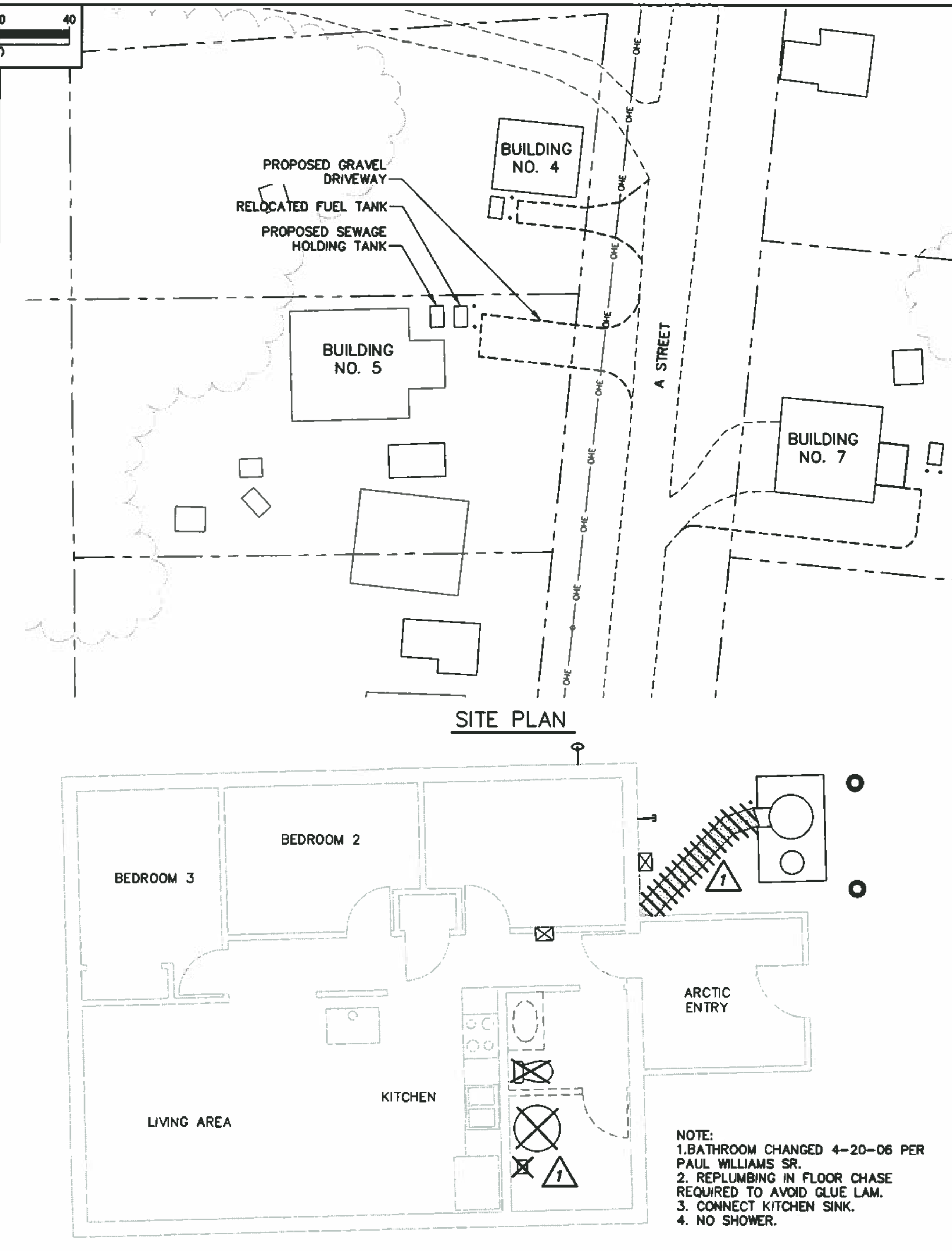
File: 9966 Beaver_Record_C4-C6 Bathroom Layouts.dwg





BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 — **BUILDING 2 - DAVID HOPE**
AS SHOWN



NOTE:
1. BATHROOM CHANGED 4-20-06 PER PAUL WILLIAMS SR.
2. REPLUMBING IN FLOOR CHASE REQUIRED TO AVOID GLUE LAM.
3. CONNECT KITCHEN SINK.
4. NO SHOWER.

△1 NOTE:
SEWAGE HOLDING TANK INSTALLED.
NO OTHER COMPONENTS INSTALLED.

BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2 — **BUILDING 5 - PAUL WILLIAMS SR.**
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME: M. Leguineche DATE: 2/09

STATE OF ALASKA — 49th — Mike Leguineche CE 11006 — REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

STATE OF ALASKA — 49th — MICHAEL LEGUINECHE 11006 — REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES
SITE PLAN & BATHRODM LAYOUT

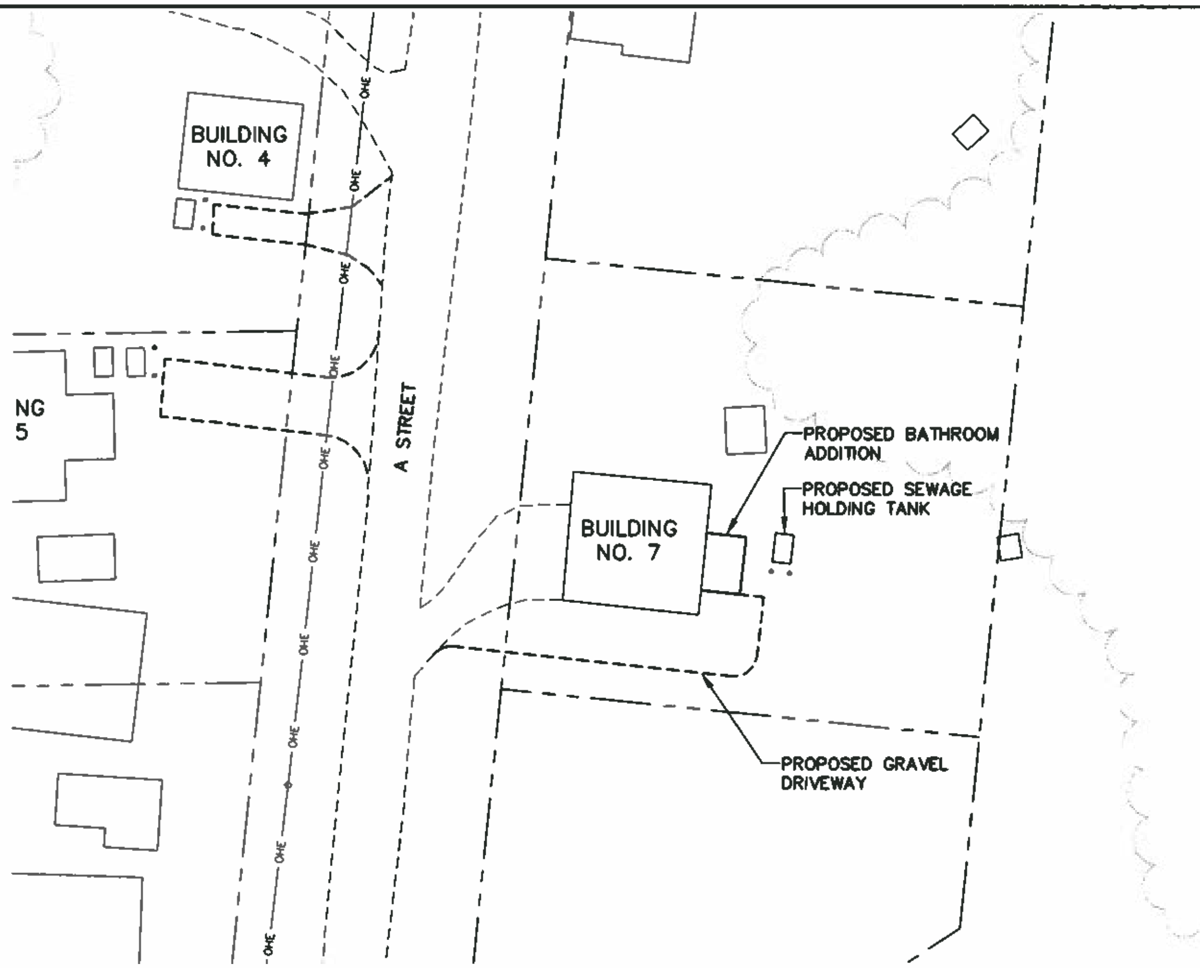
DAVID HOPE – BUILDING 2
PAUL WILLIMAS, SR – BUILDING 5

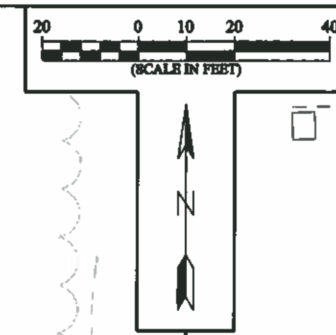
REVISION	BY	DATE
△1 AS-BUILT	ML	2/09

Project No. 9966
Date MAY 2006
Designed M.J.
Drawn M.J.
Approved M.J.

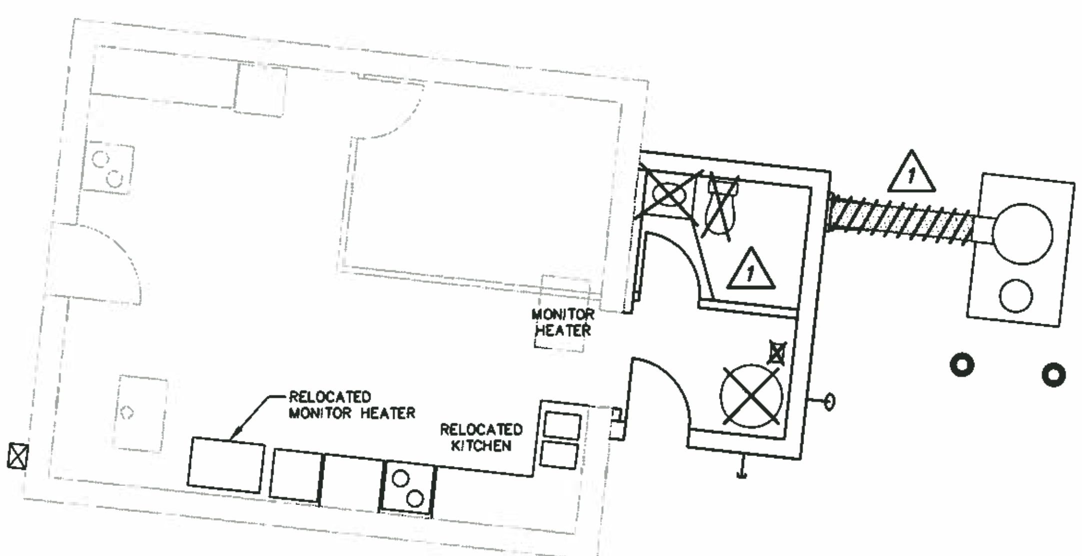
Sheet No.
SHEET C7 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg





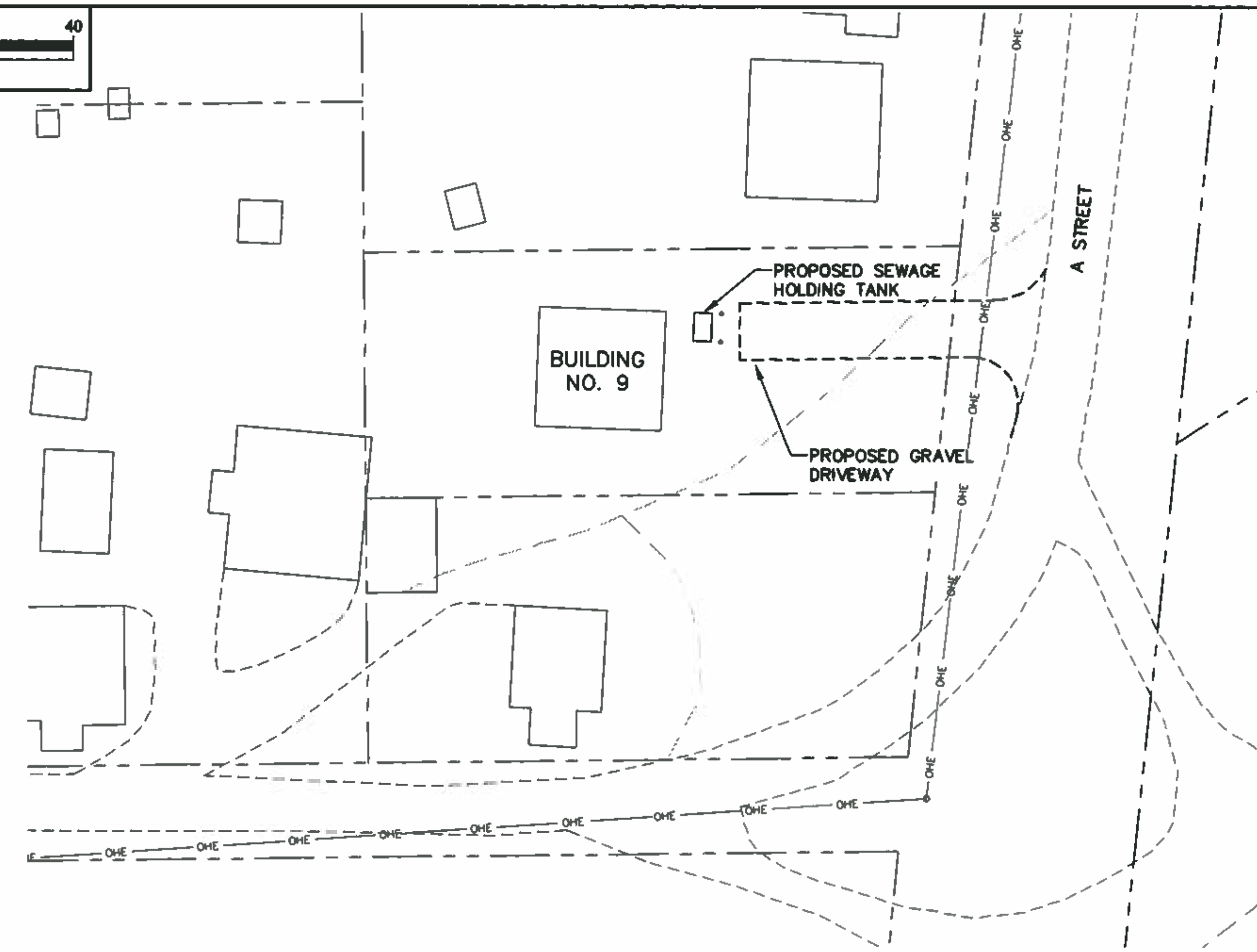
SITE PLAN



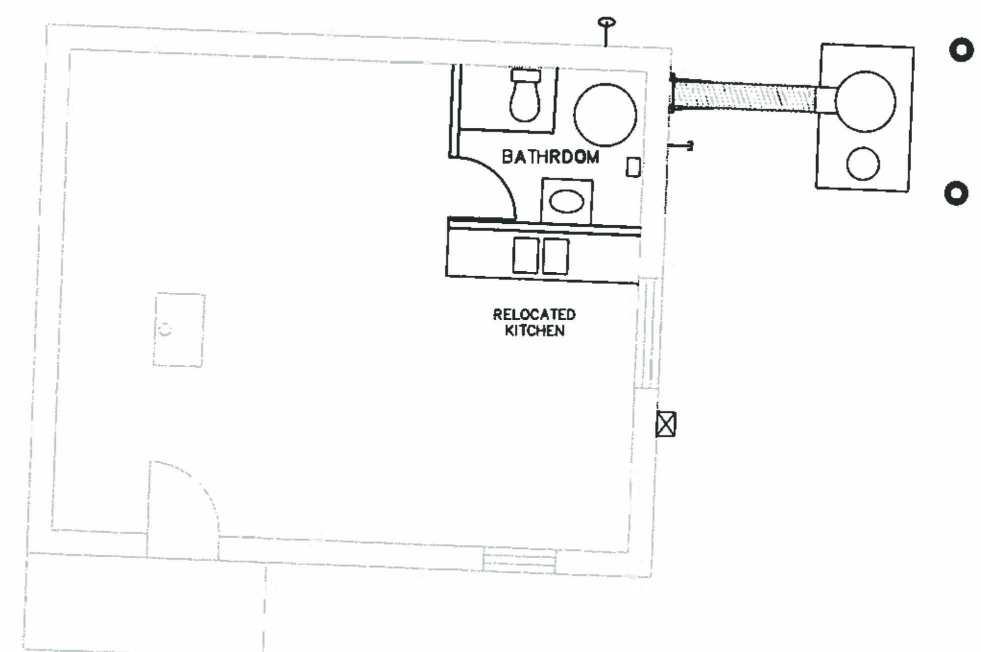
BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

NOTE: SEWAGE HOLDING TANK INSTALLED. NO OTHER COMPONENTS INSTALLED.

1 BUILDING 7 - WILMA PITKA
AS SHOWN



SITE PLAN



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2 BUILDING 9 - JAMES HOPE
AS SHOWN

RECORD DRAWING CERTIFICATE
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M. Leguineche 2/09
NAME DATE

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

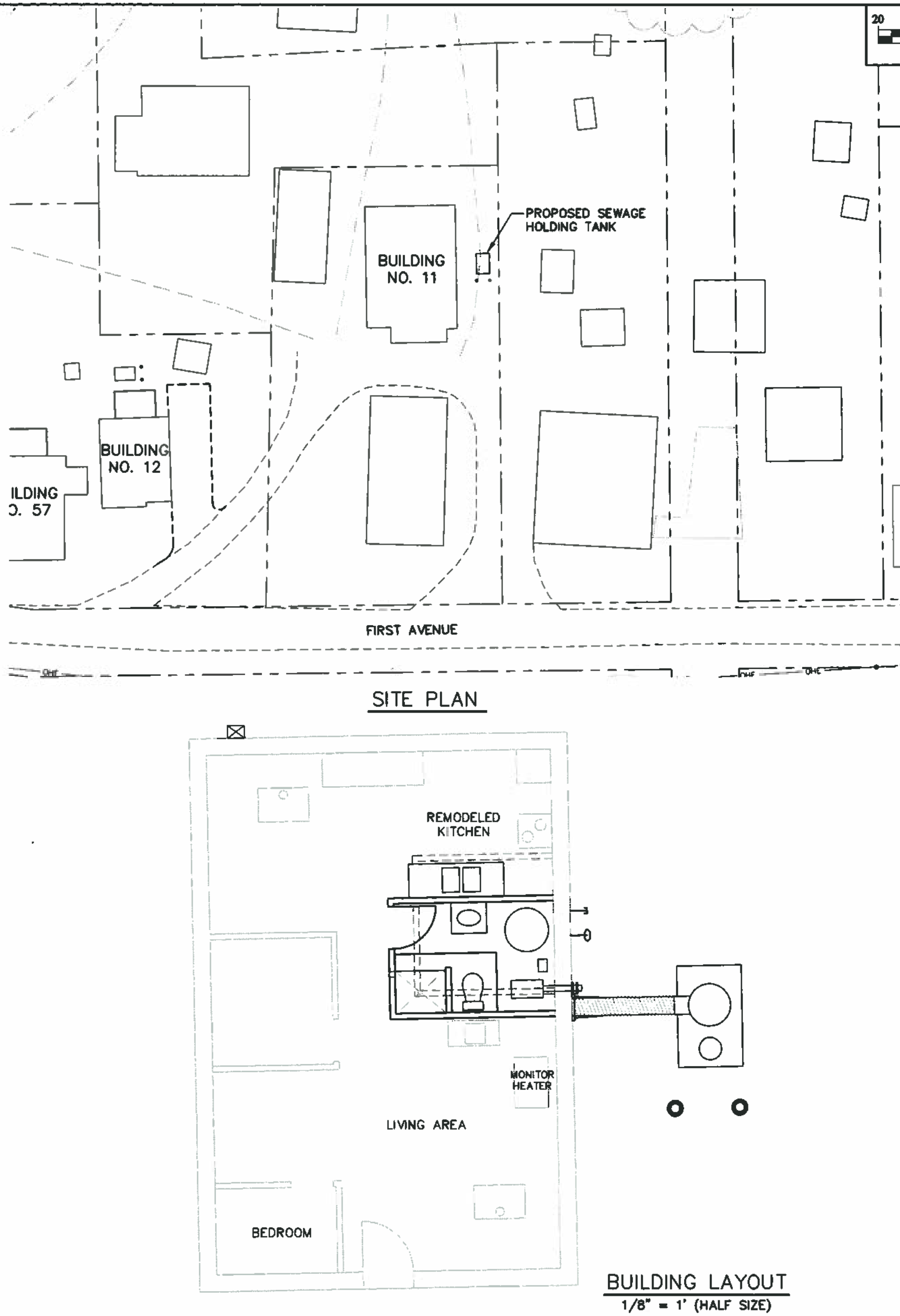
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
WILMA PITKA -- BUILDING 7
JAMES HOPE -- BUILDING 9

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

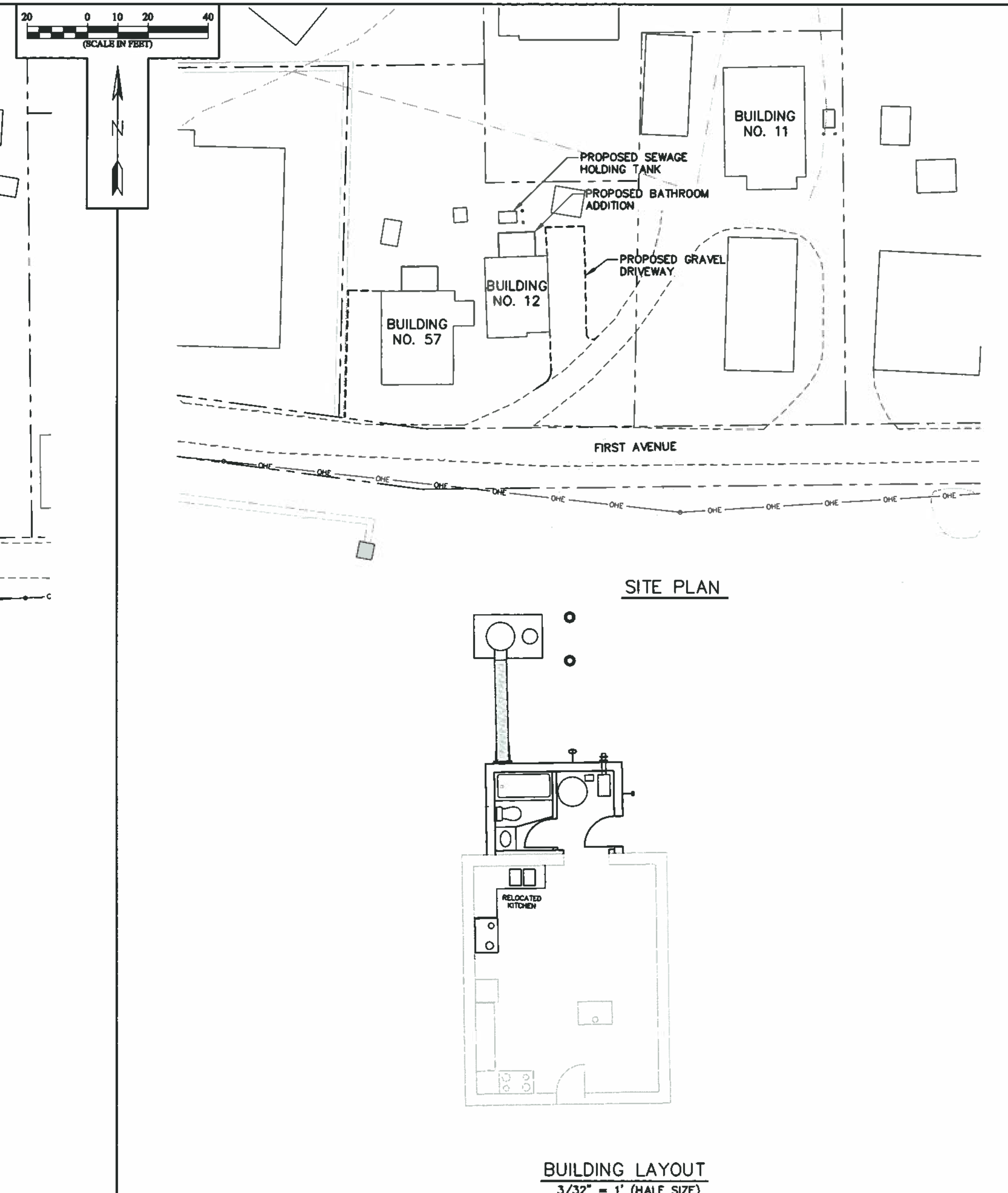
Project No. 9966
Date MAY 2006
Designed ML
Drawn ML
Approved ML

Sheet No.
SHEET C8 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg



1 — **BUILDING 11 - ELSIE PITKA**
AS SHOWN



2 — **BUILDING 12 - MARY SAM**
AS SHOWN

RECORD DRAWING CERTIFICATE

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M. Leguineche (signature) — NAME; 2/09 — DATE

STATE OF ALASKA * 49TH * Mike Leguineche CE 11006 REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

STATE OF ALASKA * 49TH * MICHAEL LEGUINECHE 11006 REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT

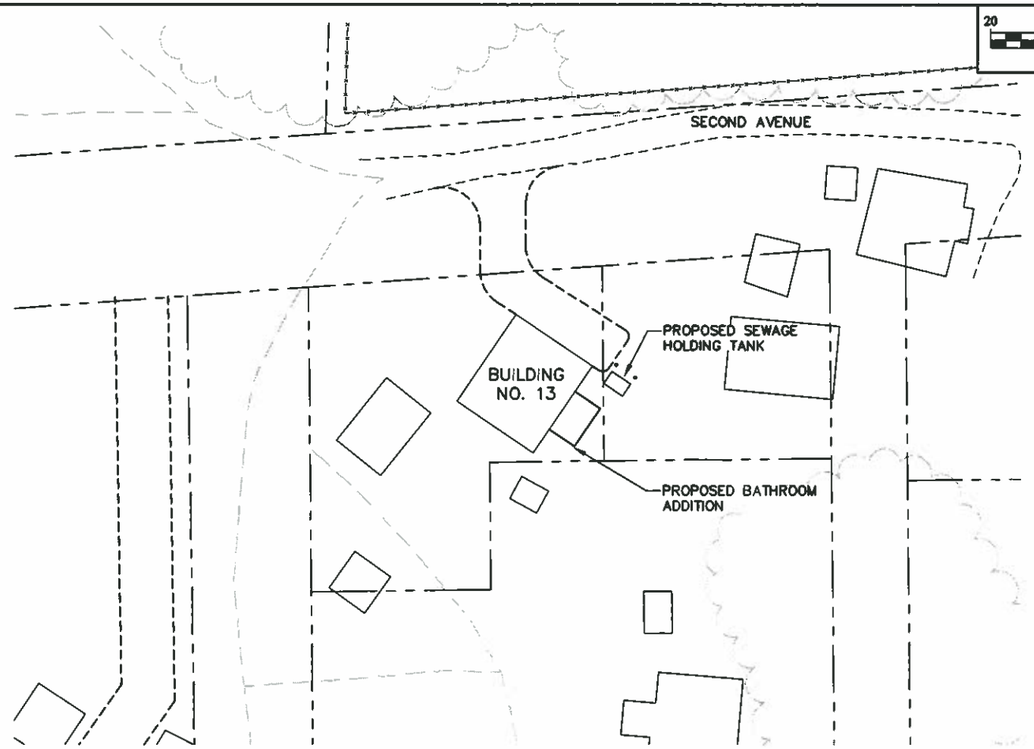
ELSIE PITKA – BUILDING 11
MARY SAM – BUILDING 12

REVISION	BY	DATE

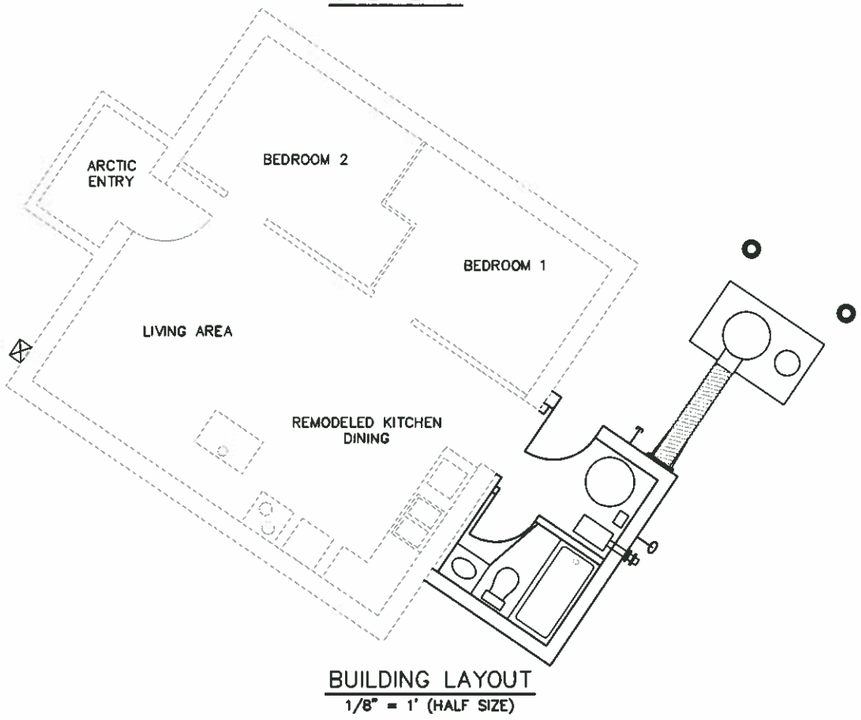
Project No. 9966
Date MAY 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No.
SHEET C9 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg

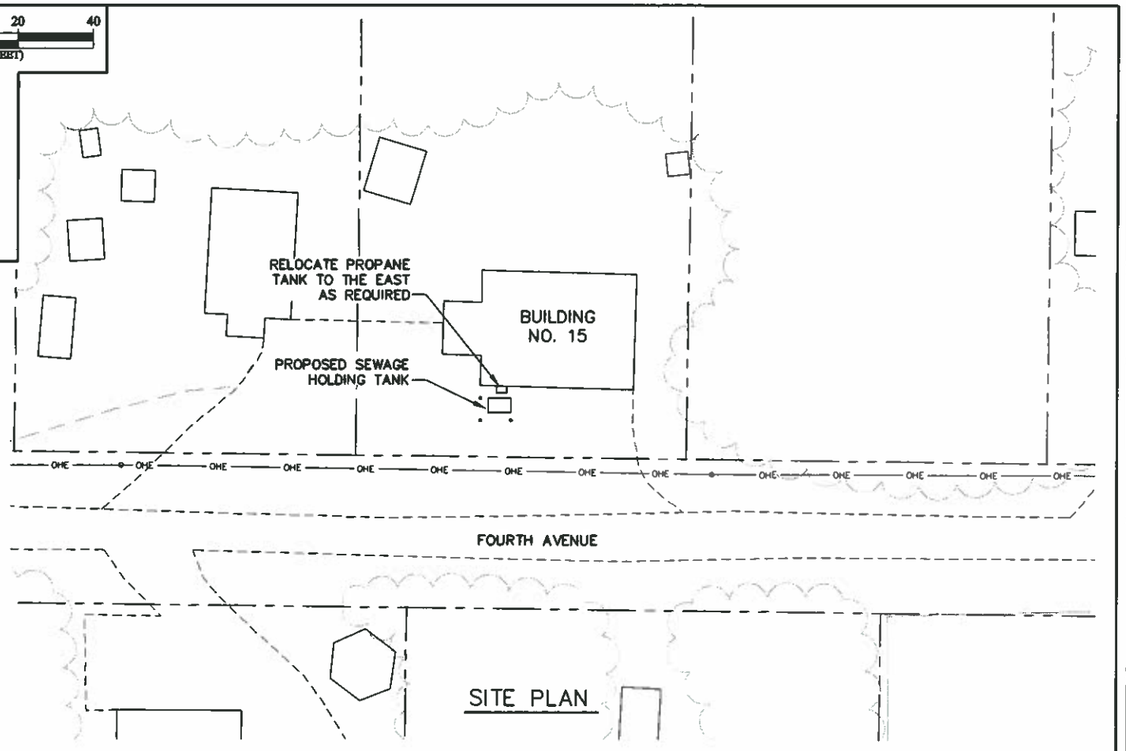


SITE PLAN

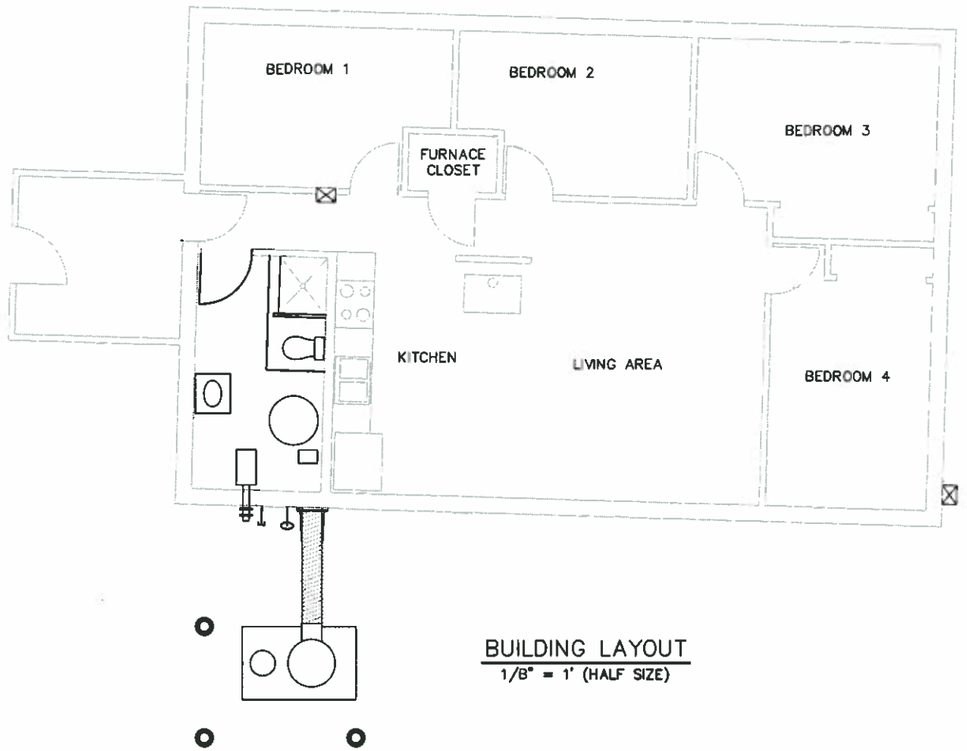


BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1/— **BUILDING 13 - GEORGE YATLIN**
AS SHOWN



SITE PLAN



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2/— **BUILDING 15 - SELENA PETRUSKA**
AS SHOWN

20 0 10 20 40
(SCALE IN FEET)

N

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NAME M. Lequieu DATE 2/07

STATE OF ALASKA 49 TH MICHAEL LEQUIEU 11006 REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-2252
FAX: (907) 561-2273

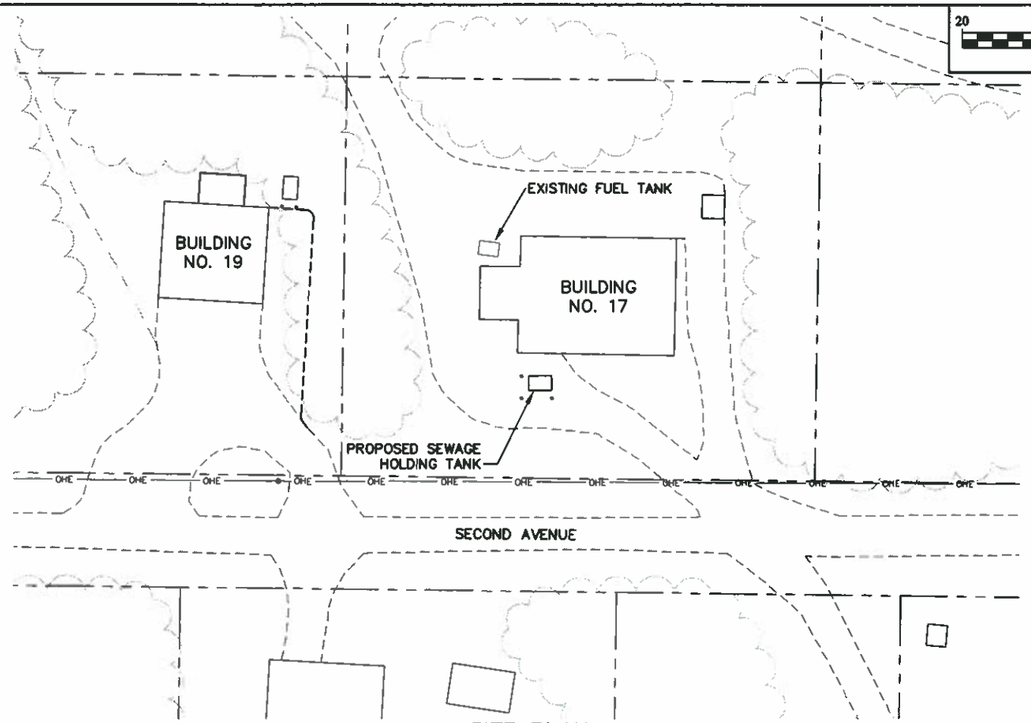
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
GEORGE YATLIN - BUILDING 13
SELENA PETRUSKA - BUILDING 15

REVISION	BY	DATE

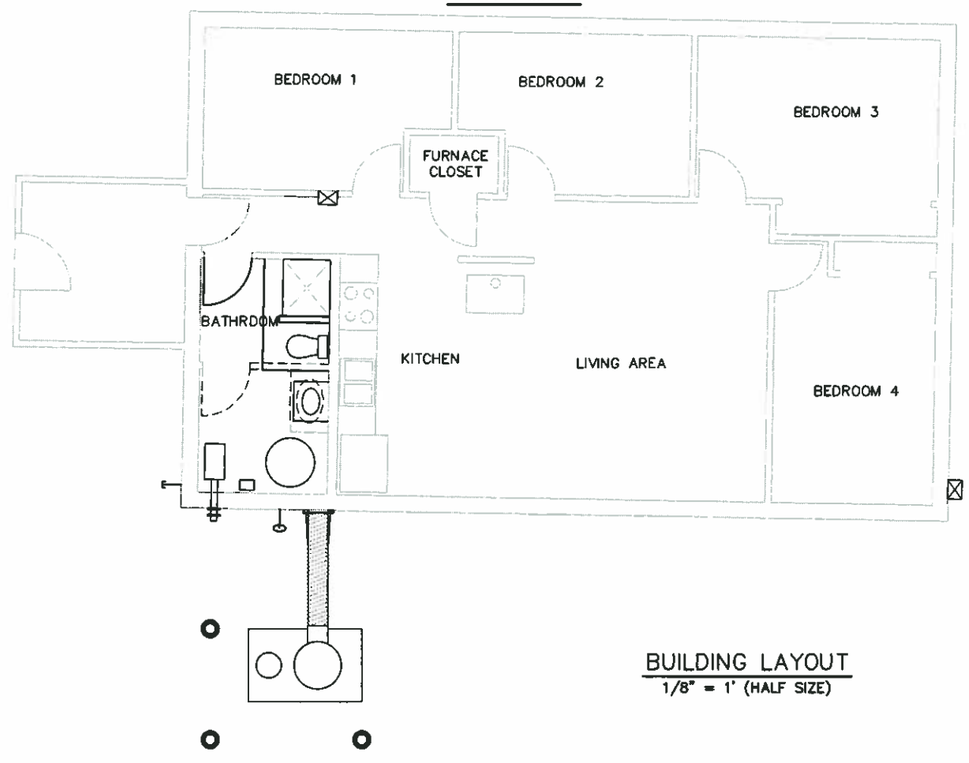
Project No. 9966
Date MAY 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No.
SHEET C10 OF C20

File: BATHROOM BASE.dwg

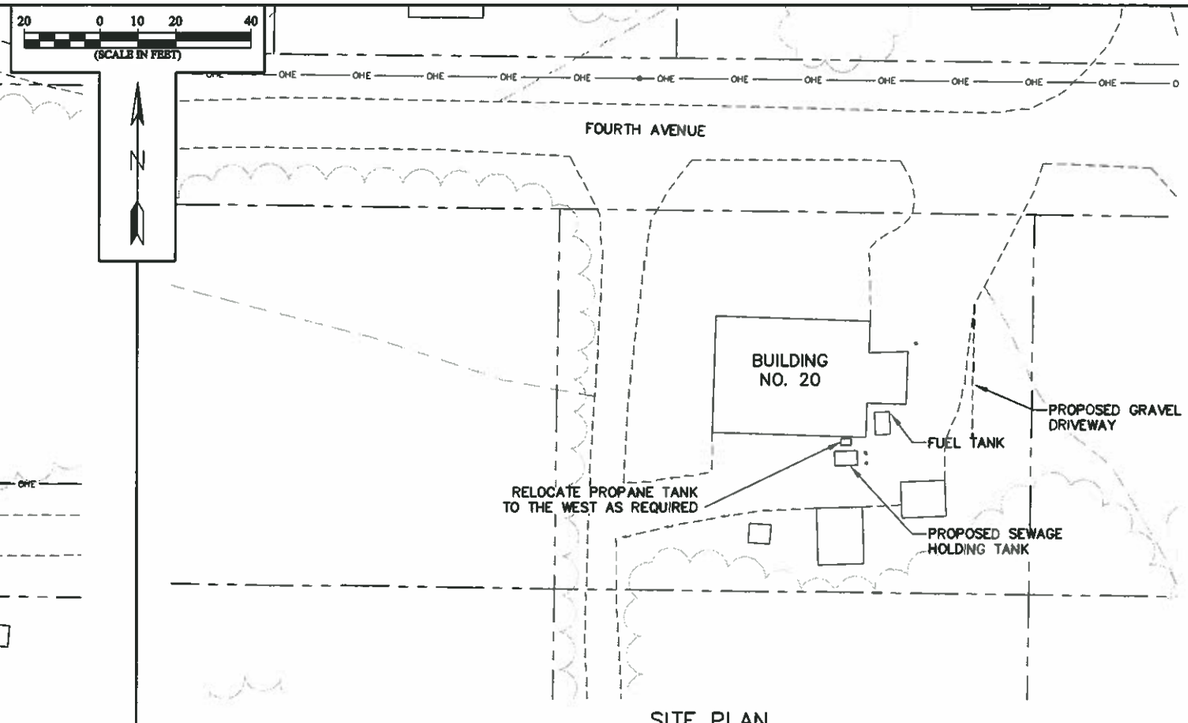


SITE PLAN



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 / — **BUILDING 17 - VIVIAN JUMEABY**
AS SHOWN



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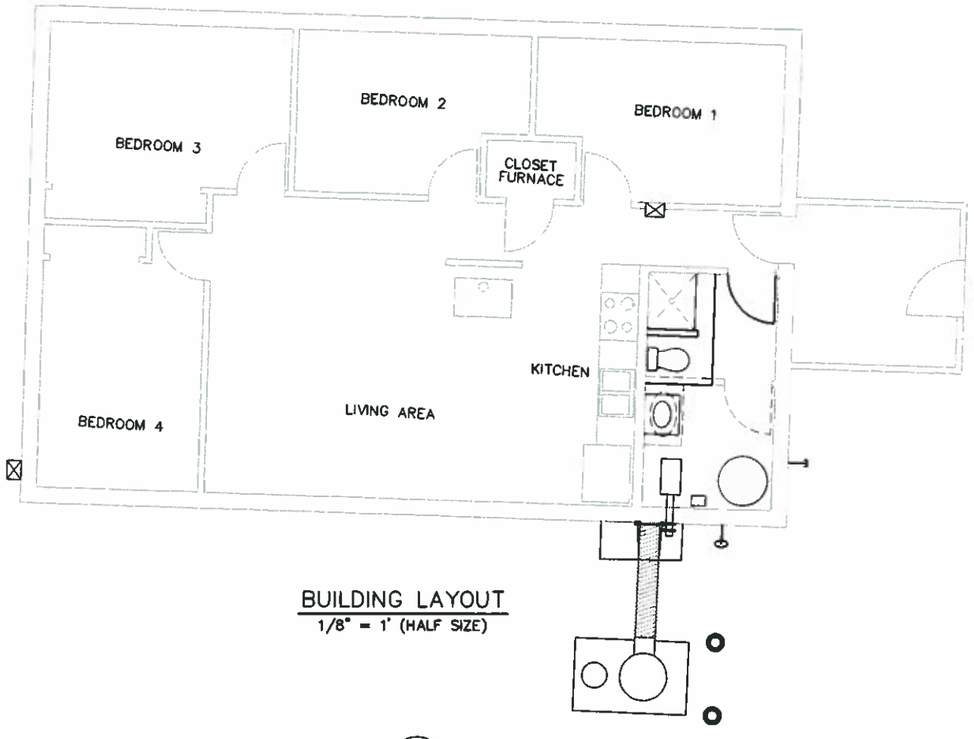


BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2 / — **BUILDING 20 - ANNA JOSEPH**
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME
DATE 2/07

STATE OF ALASKA — 49 TH — REGISTERED PROFESSIONAL ENGINEER — Libby Langhorne — CE 11009

VILLAGE SAFE WATER

STATE OF ALASKA — 49 TH — REGISTERED PROFESSIONAL ENGINEER — MICHAEL LEGUMINA — 11006

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD., SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

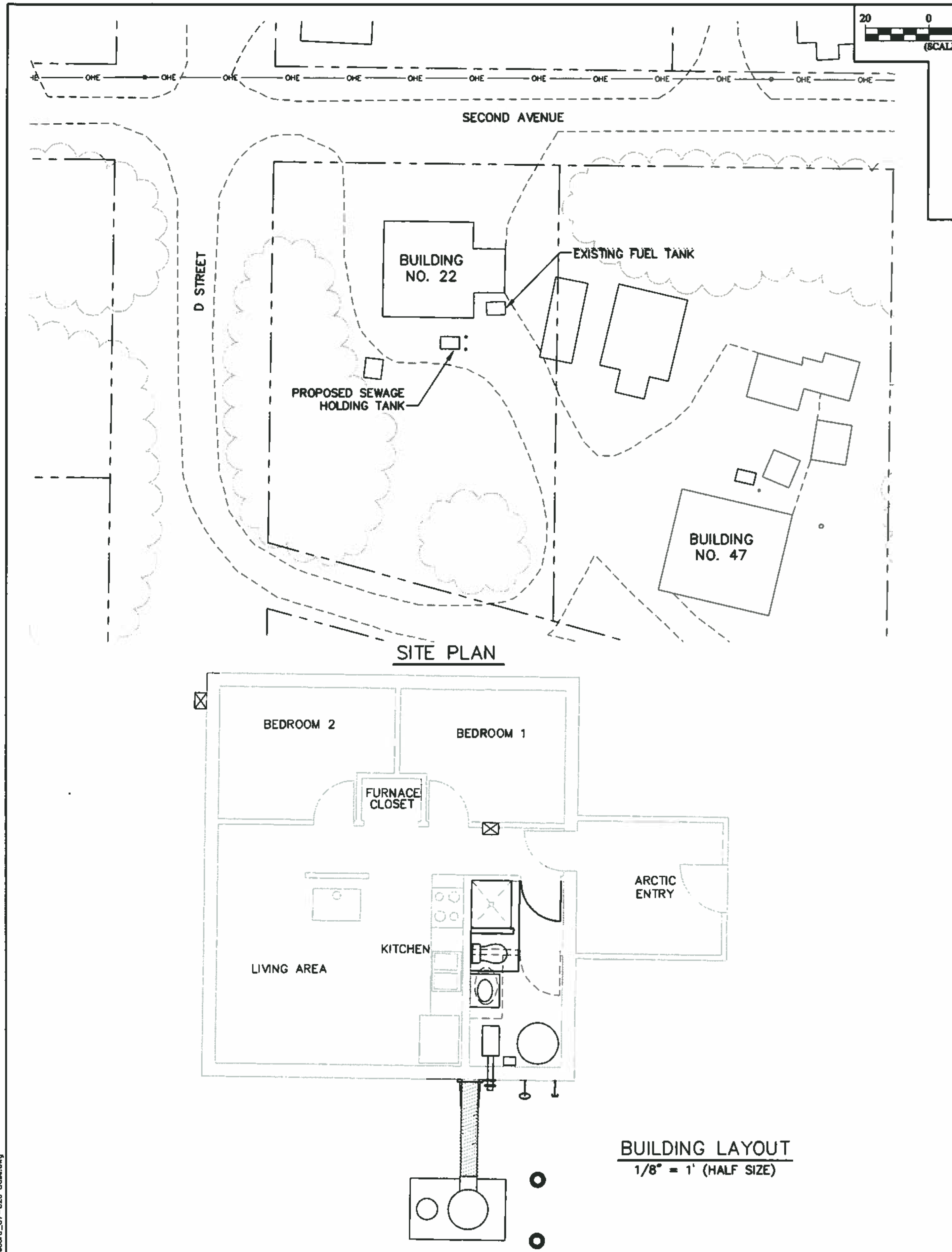
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
VIVIAN JUMEABY -- BUILDING 17
ANNA JOSEPH -- BUILDING 20

REVISION	BY	DATE

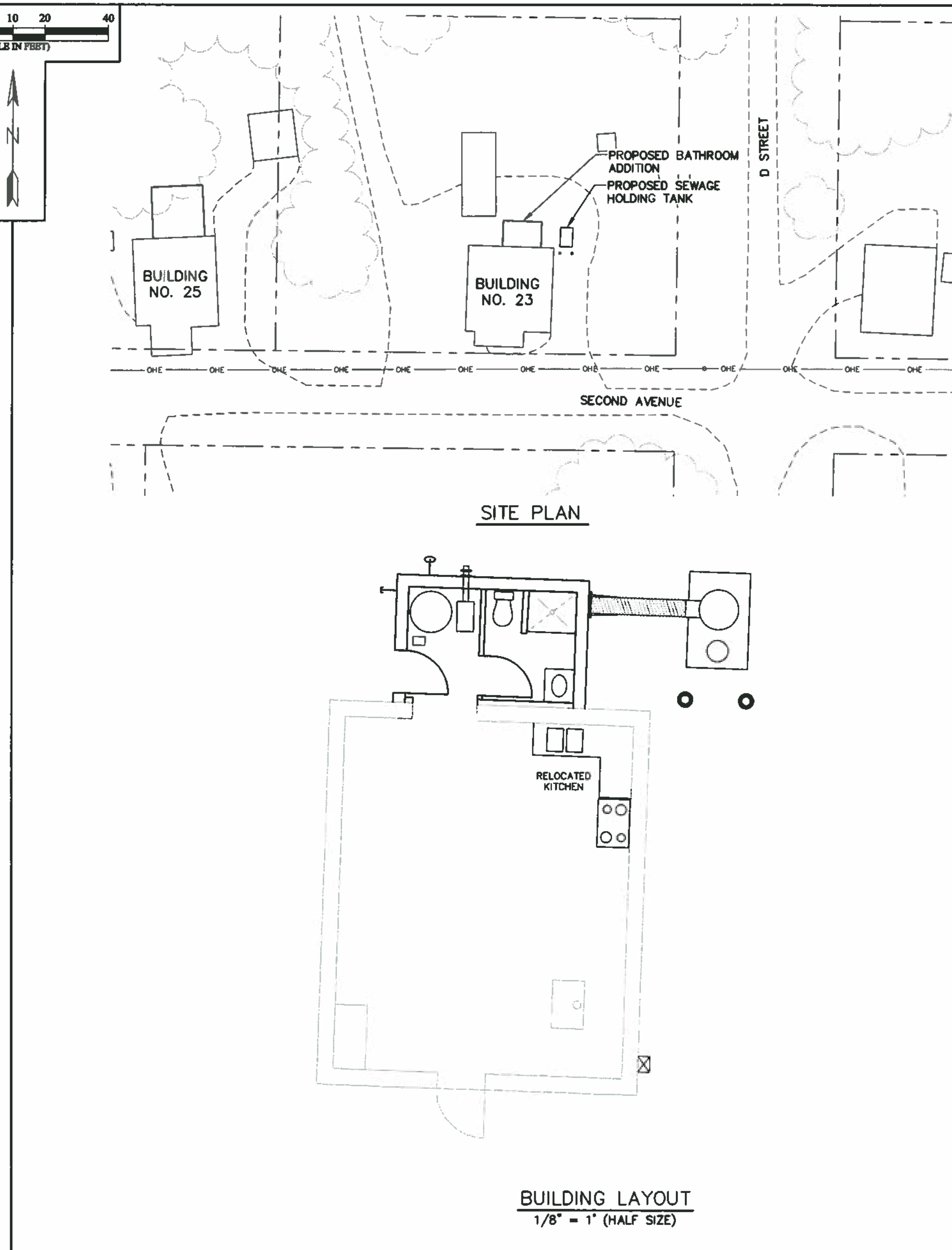
Project No. 9966
Date MAY 2006
Designed M.L
Drawn M.L
Approved M.L

Sheet No.
SHEET C11 OF C20

File: 9966 Beaver_Record_C17-C20 Base.dwg



1 — BUILDING 22 - HANNAH ADAMS
AS SHOWN



2 — BUILDING 23 - ALVIN WINER
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME DATE 2/09

VILLAGE SAFE WATER

STATE OF ALASKA — 49TH — MICHAEL LEGUNECHE — CE 11006 — REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD., SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

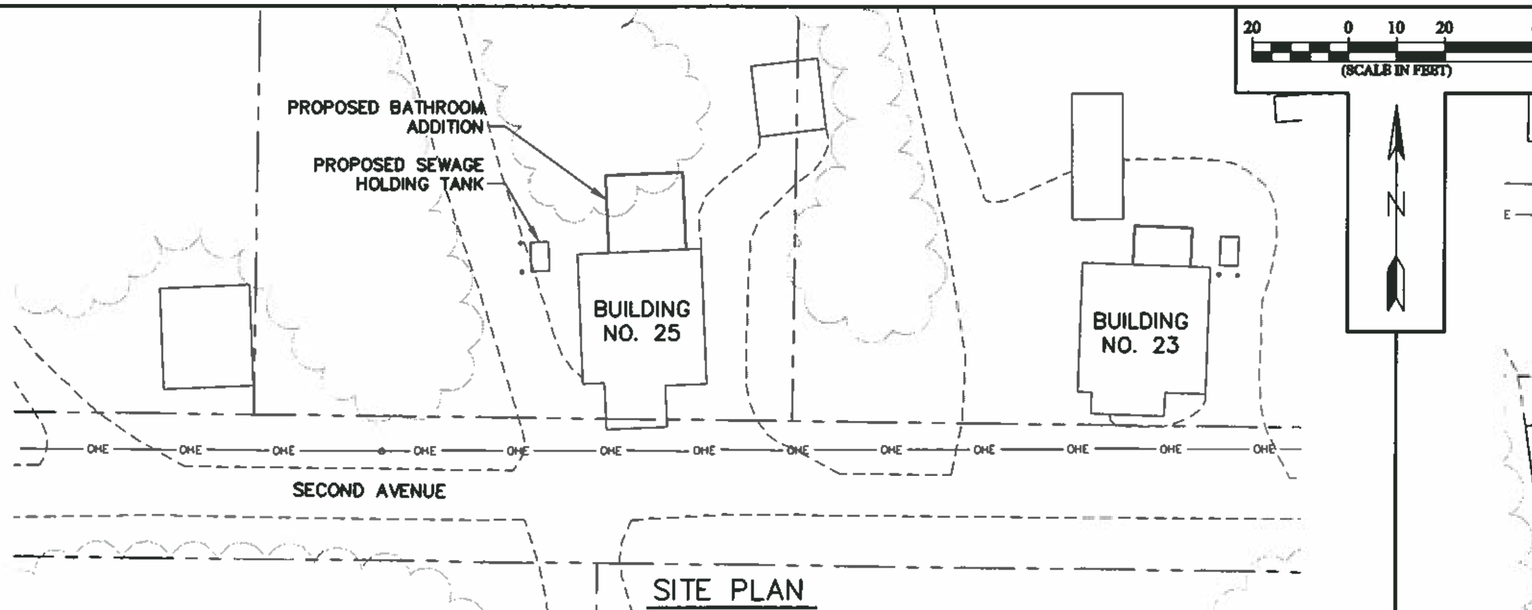
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
HANNAH ADAMS -- BUILDING 22
ALVIN WINER -- BUILDING 23

REVISION	BY	DATE

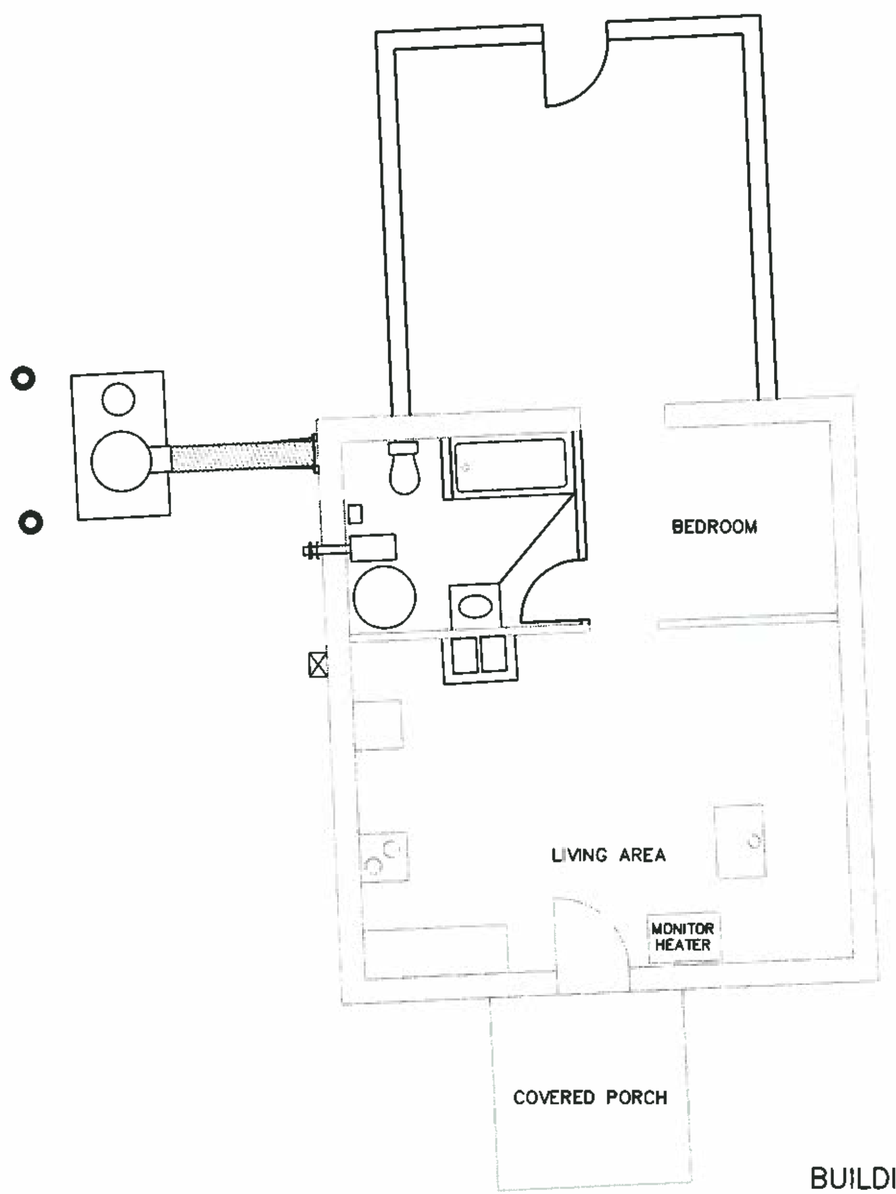
Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved MJL

Sheet No.
SHEET C12 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg

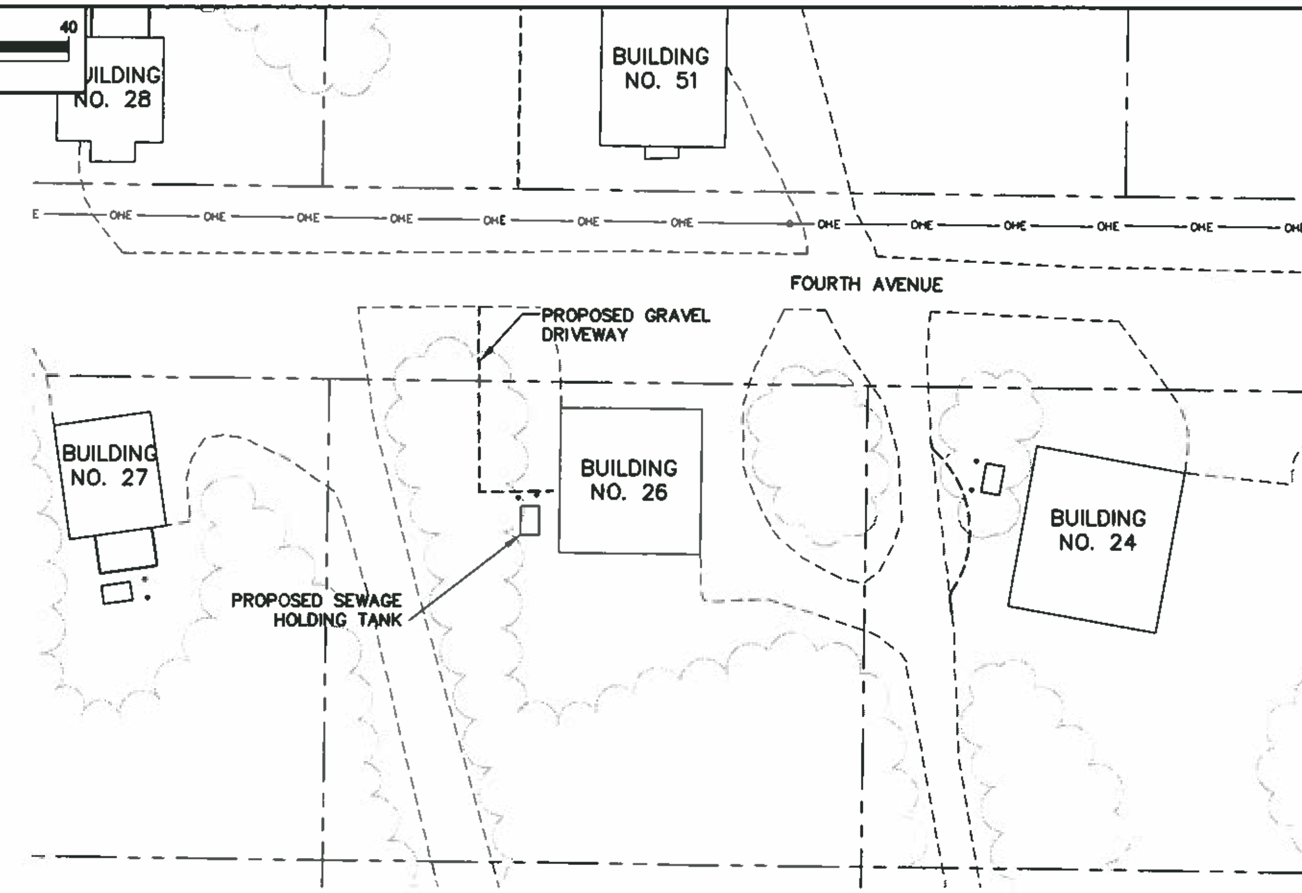


SITE PLAN

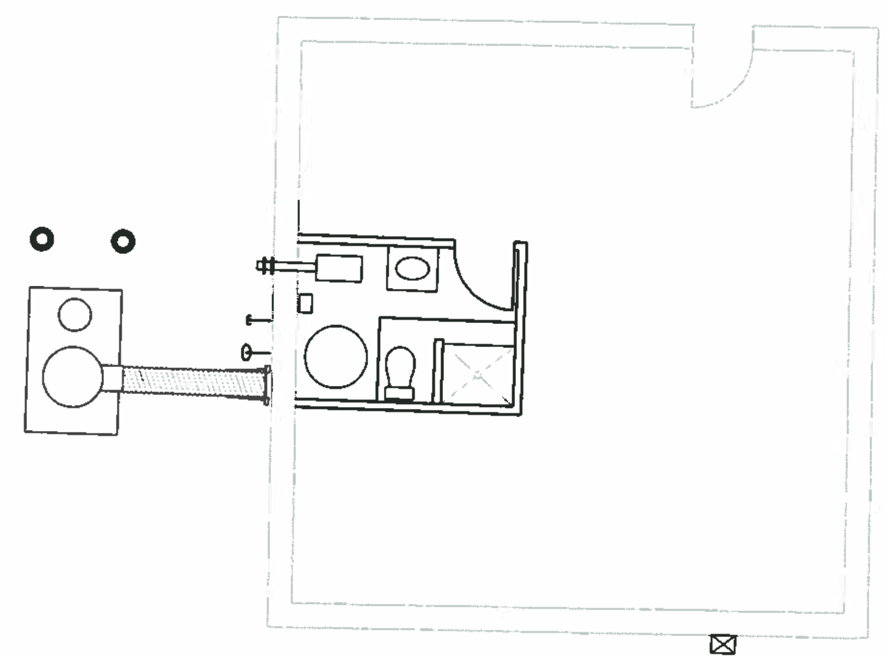


BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 BUILDING 25 - NORA BILLY
AS SHOWN



SITE PLAN



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2 BUILDING 26 - ROY HENRY
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME: M. Legunecle DATE: 2/09

STATE OF ALASKA — 49th — Mike Legunecle CE 11006 — REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

STATE OF ALASKA — 49th — MICHAEL LEGUNECHE 11006 — REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD, SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT

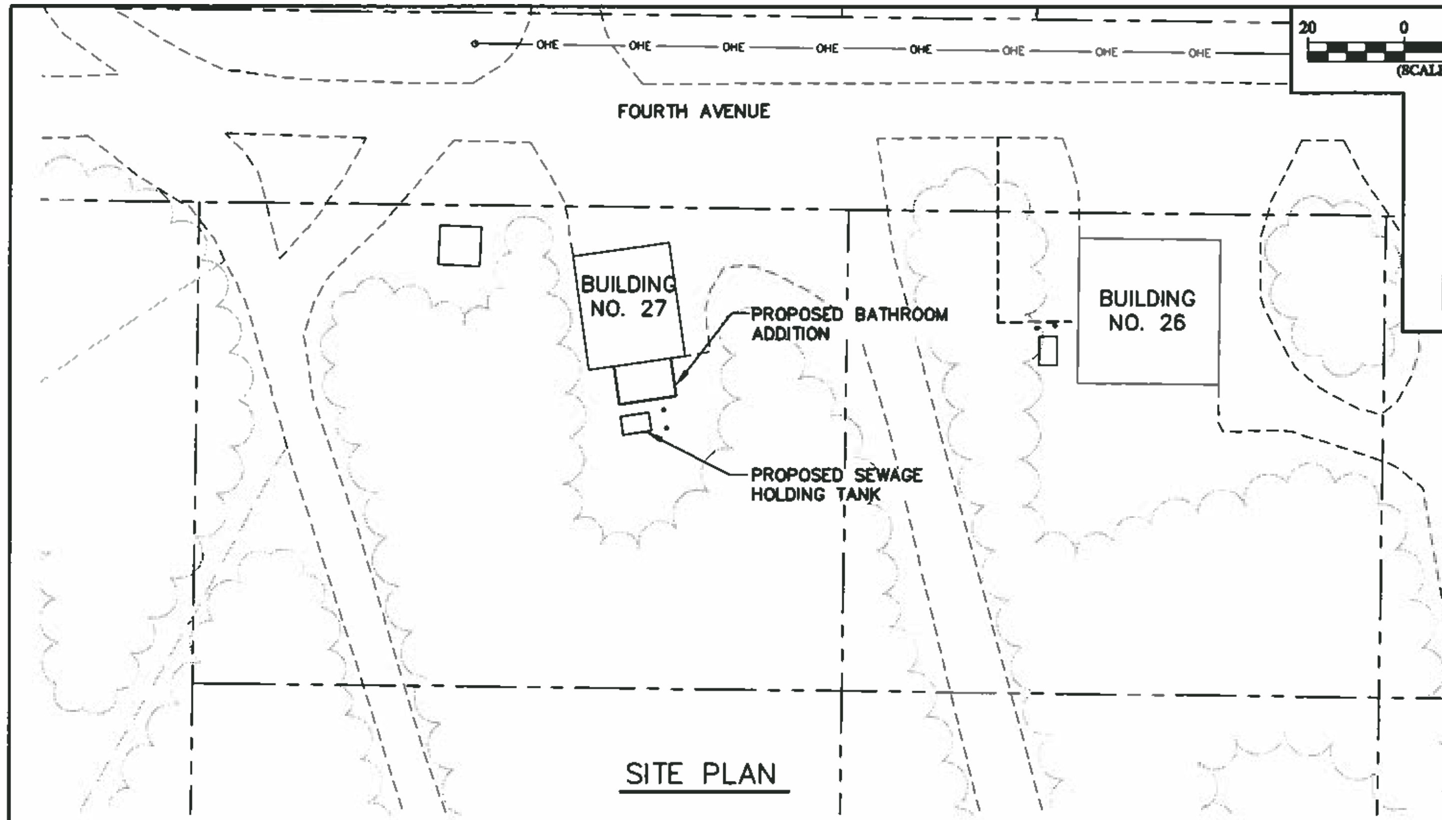
NORA BILLY - BUILDING 25
ROY HENRY - BUILDING 26

REVISION	BY	DATE

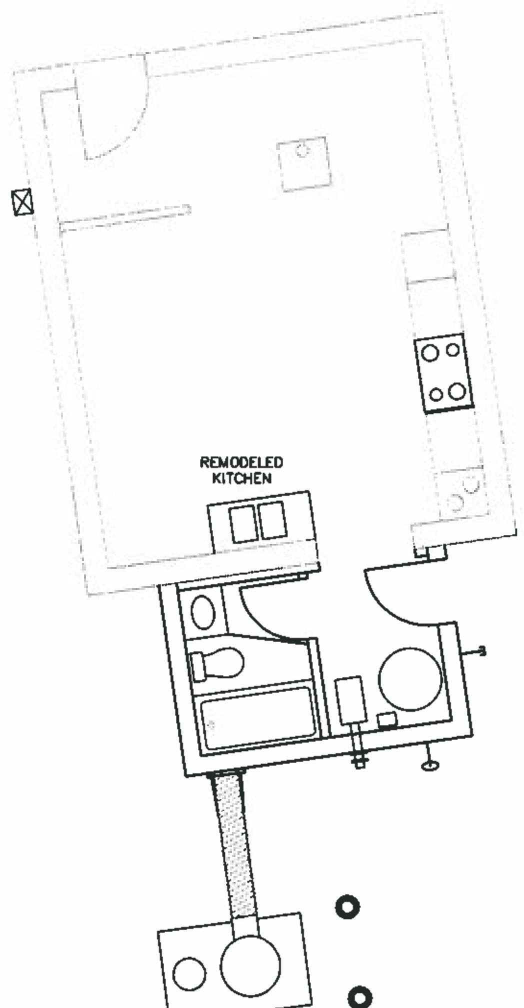
Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved MJL

Sheet No.
SHEET C13 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg

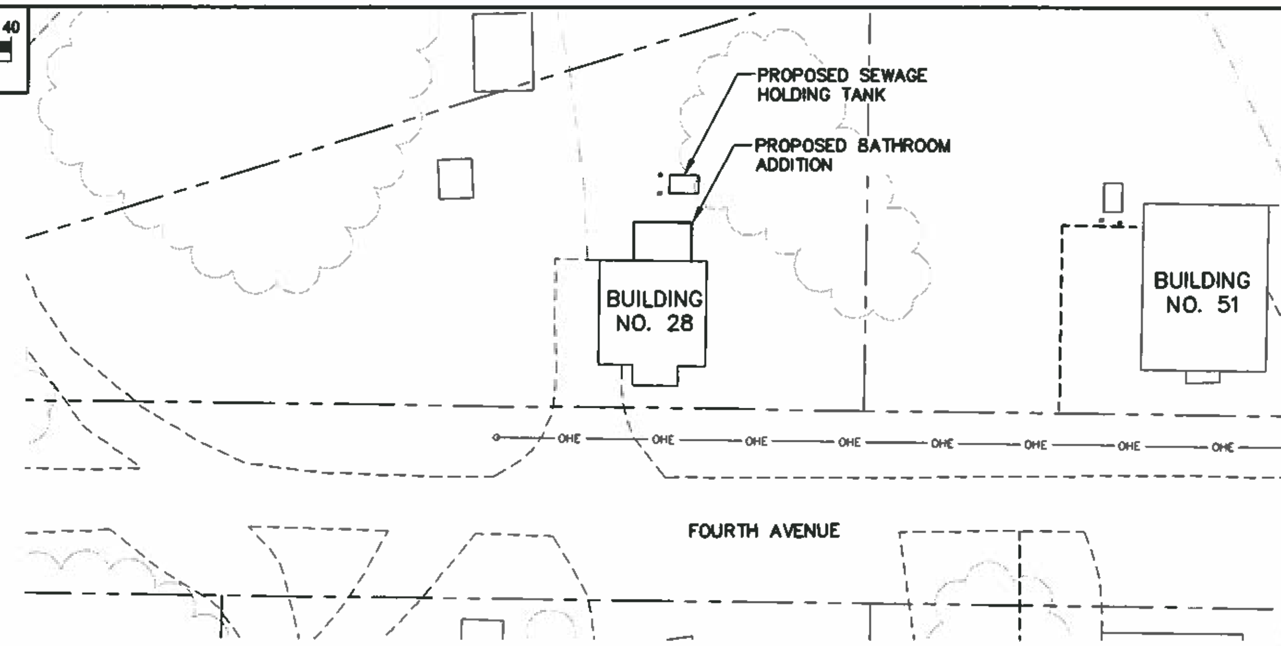


SITE PLAN

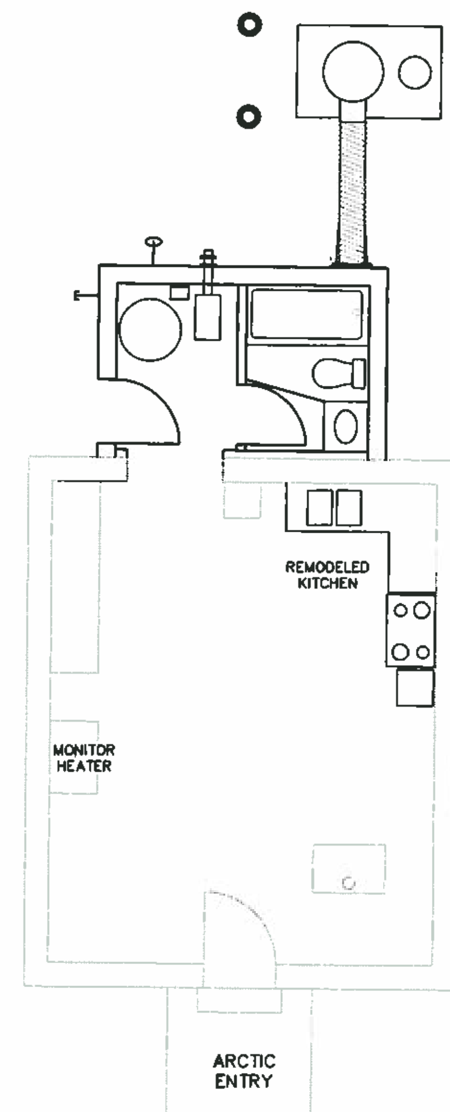


BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 BUILDING 27 - HEATHER JOSEPH
AS SHOWN



SITE PLAN



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2 BUILDING 28 - SAM JOSEPH
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME: M. Leguineche DATE: 2/09

STATE OF ALASKA 49TH MICHAEL LEGUINECHE CE 11006 REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
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FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT

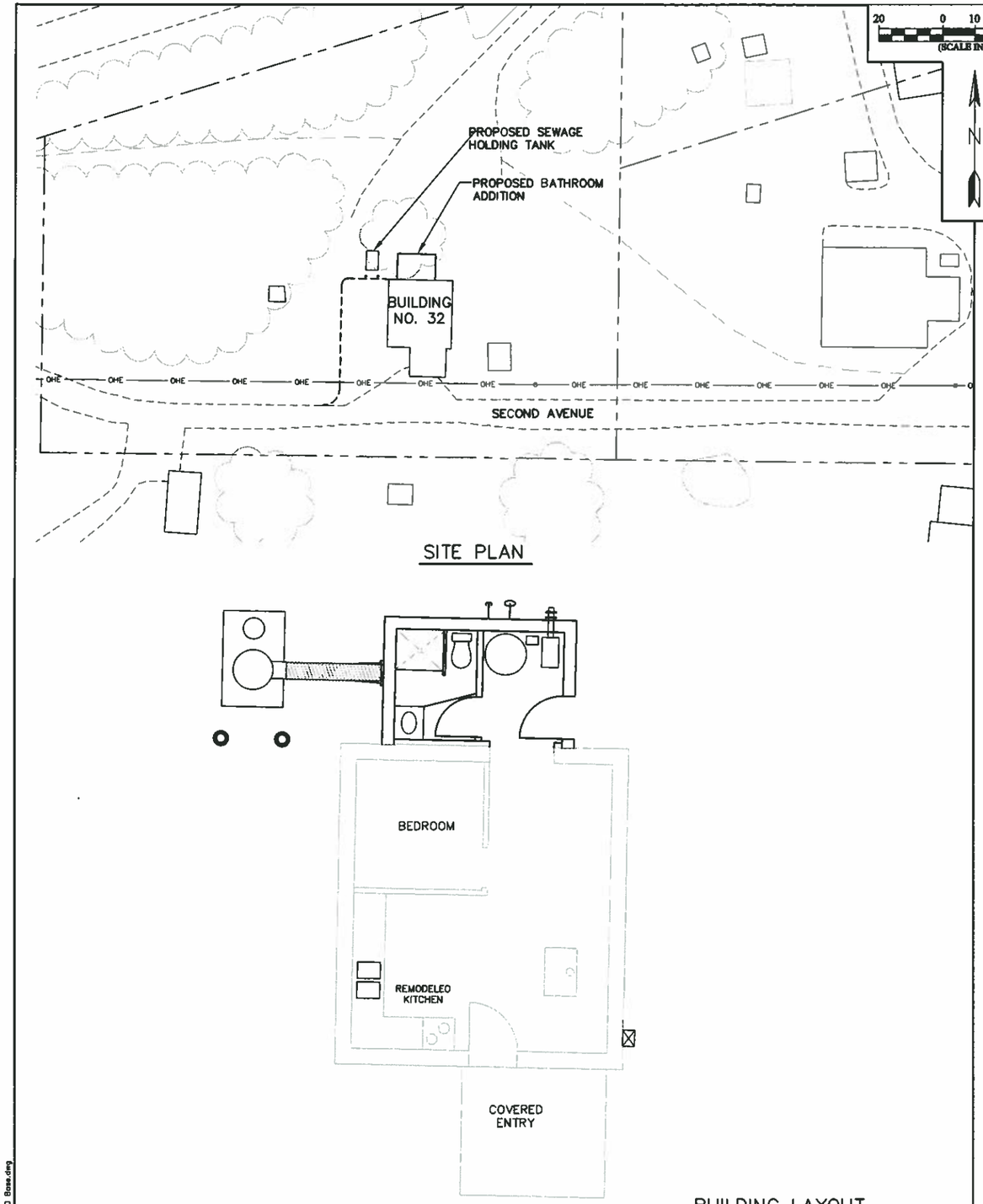
HEATHER JOSEPH – BUILDING 27
SAM JOSEPH – BUILDING 28

REVISION	BY	DATE

Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved MJL

Sheet No.
SHEET C14 OF C20

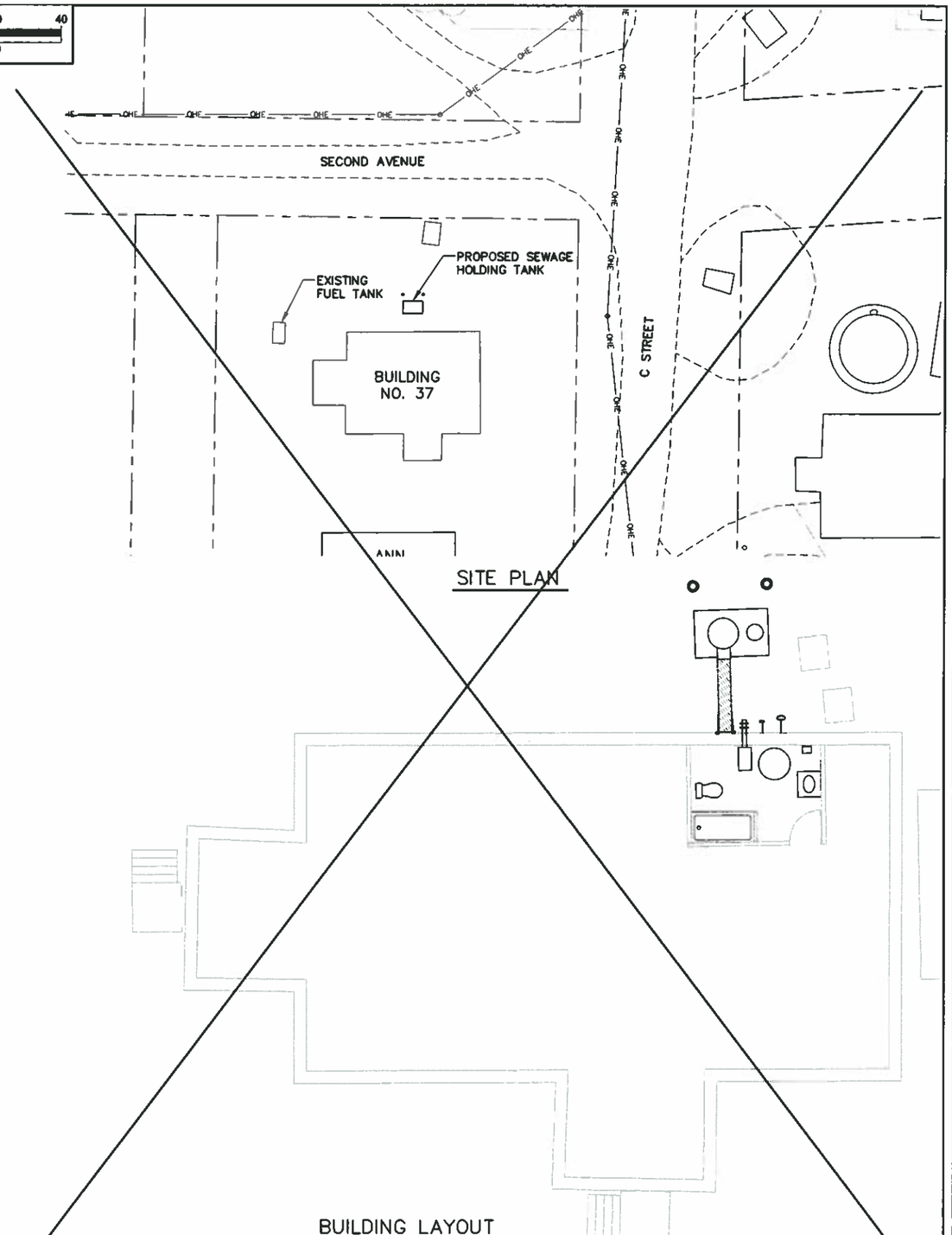
File: 9966 Beaver_Record_C7-C20 Base.dwg



SITE PLAN

BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 — **BUILDING 32 - JENNIE PITKA**
AS SHOWN



SITE PLAN

BUILDING LAYOUT
3/32" = 1' (HALF SIZE)

2 — **BUILDING 37 - CHARLEEN FISHER**
AS SHOWN

20 0 10 20 40
(SCALE IN FEET)

N

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME M. Lequieu DATE 2/09

STATE OF ALASKA — MICHAEL LEQUIEU — 11006 — REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

STATE OF ALASKA — MICHAEL LEQUIEU — 11006 — REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD., SUITE 203
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PHONE: (907) 561-2323
FAX: (907) 561-2273

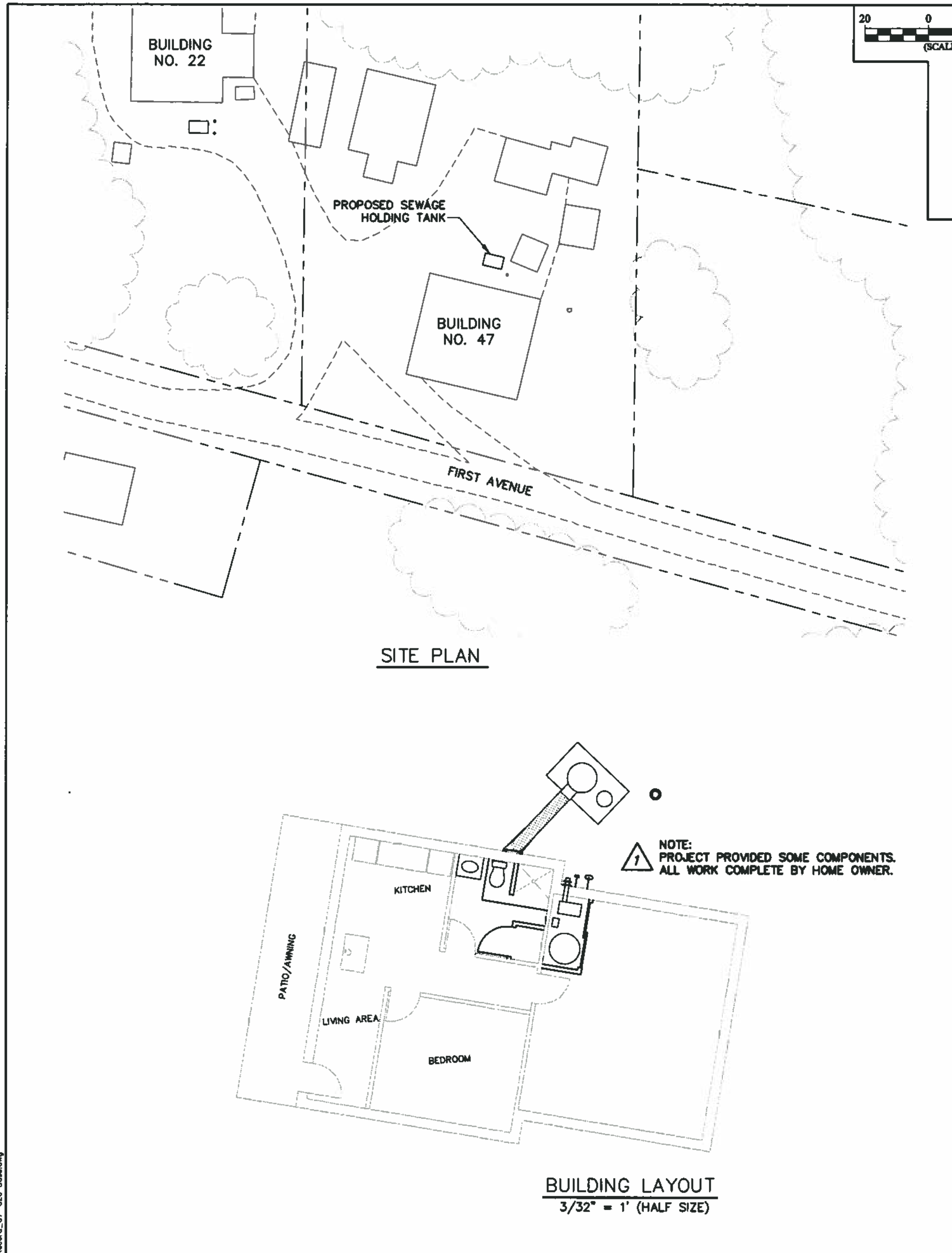
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
JENNIE PITKA - BUILDING 32
~~CHARLEEN FISHER - BUILDING 37~~

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

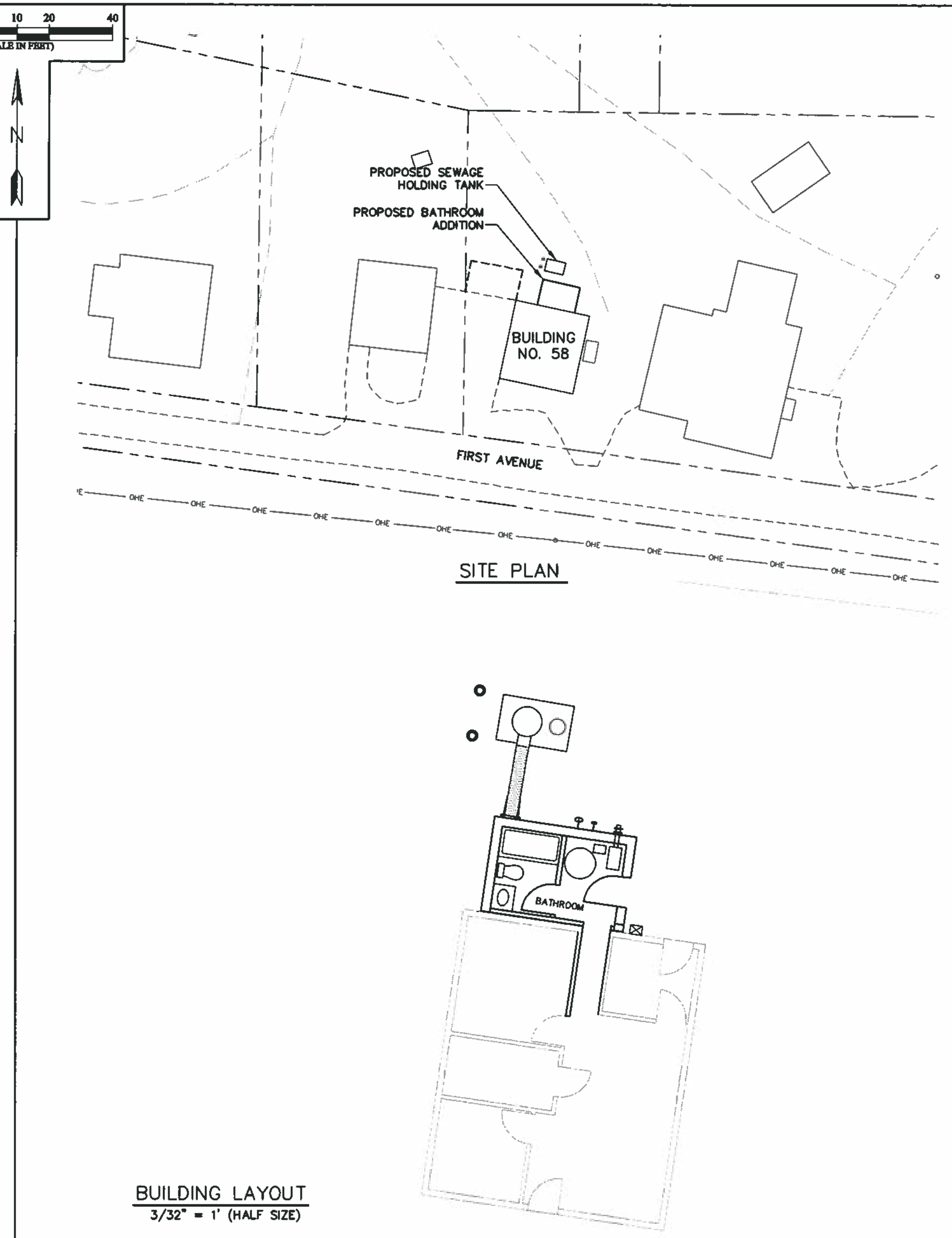
Project No. 9966
Date MAY 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No.
SHEET C15 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg



1 — **BUILDING 47 - CLIFFORD ADAMS**
AS SHOWN



2 — **BUILDING 58 - THOMAS ADAMS**
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME: M. Leguineche DATE: 2/09

STATE OF ALASKA 49th Mike Leguineche CE 11006 REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

STATE OF ALASKA 49th MICHAEL LEGUINECHE 11006 REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT

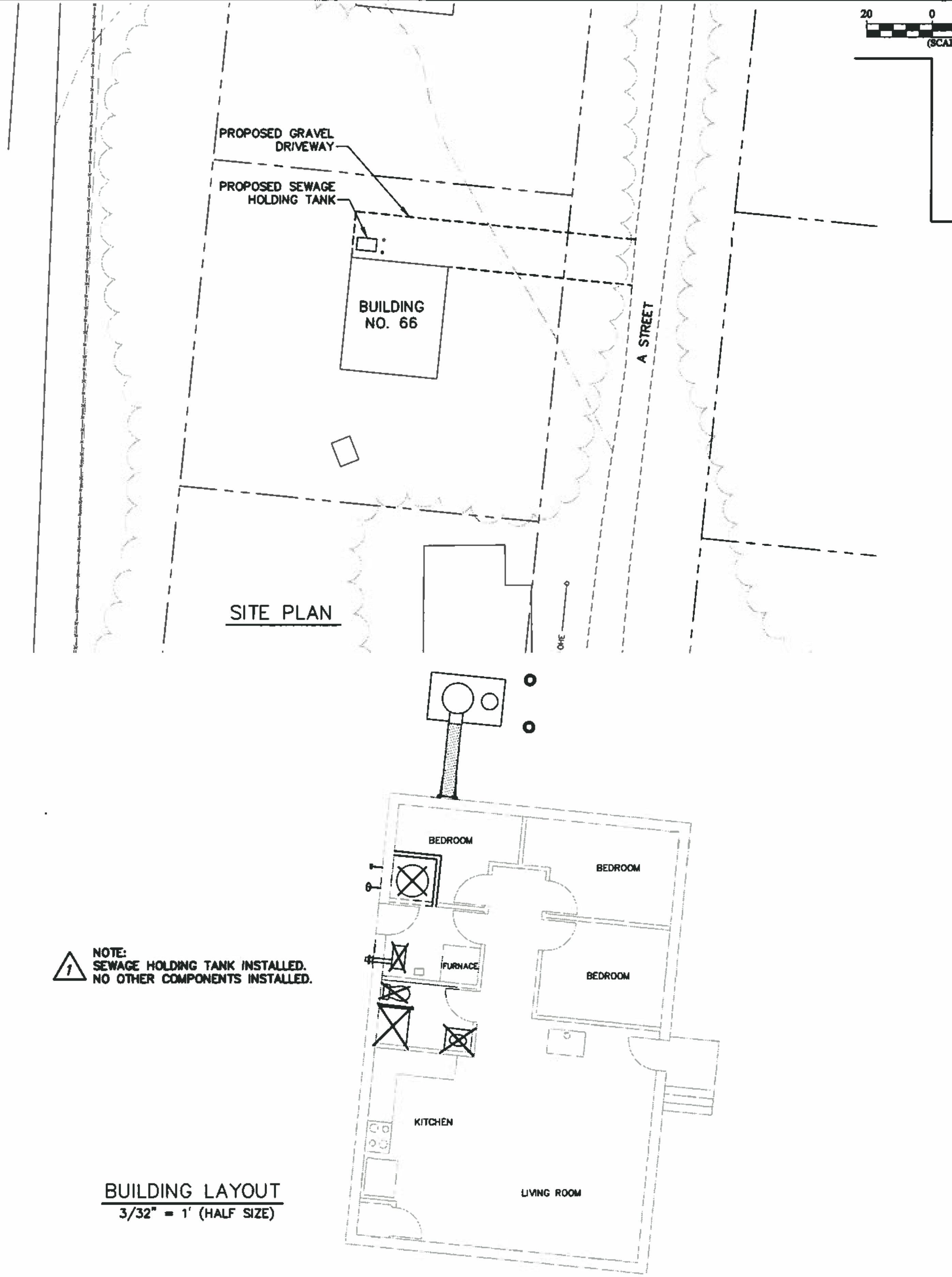
CLIFFORD ADAMS - BUILDING 47
THOMAS ADAMS - BUILDING 58

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved MJL

Sheet No.
SHEET C16 OF C20

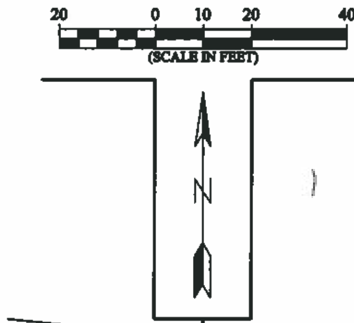
File: 9966 Beaver_Record_C7-C20 Base.dwg

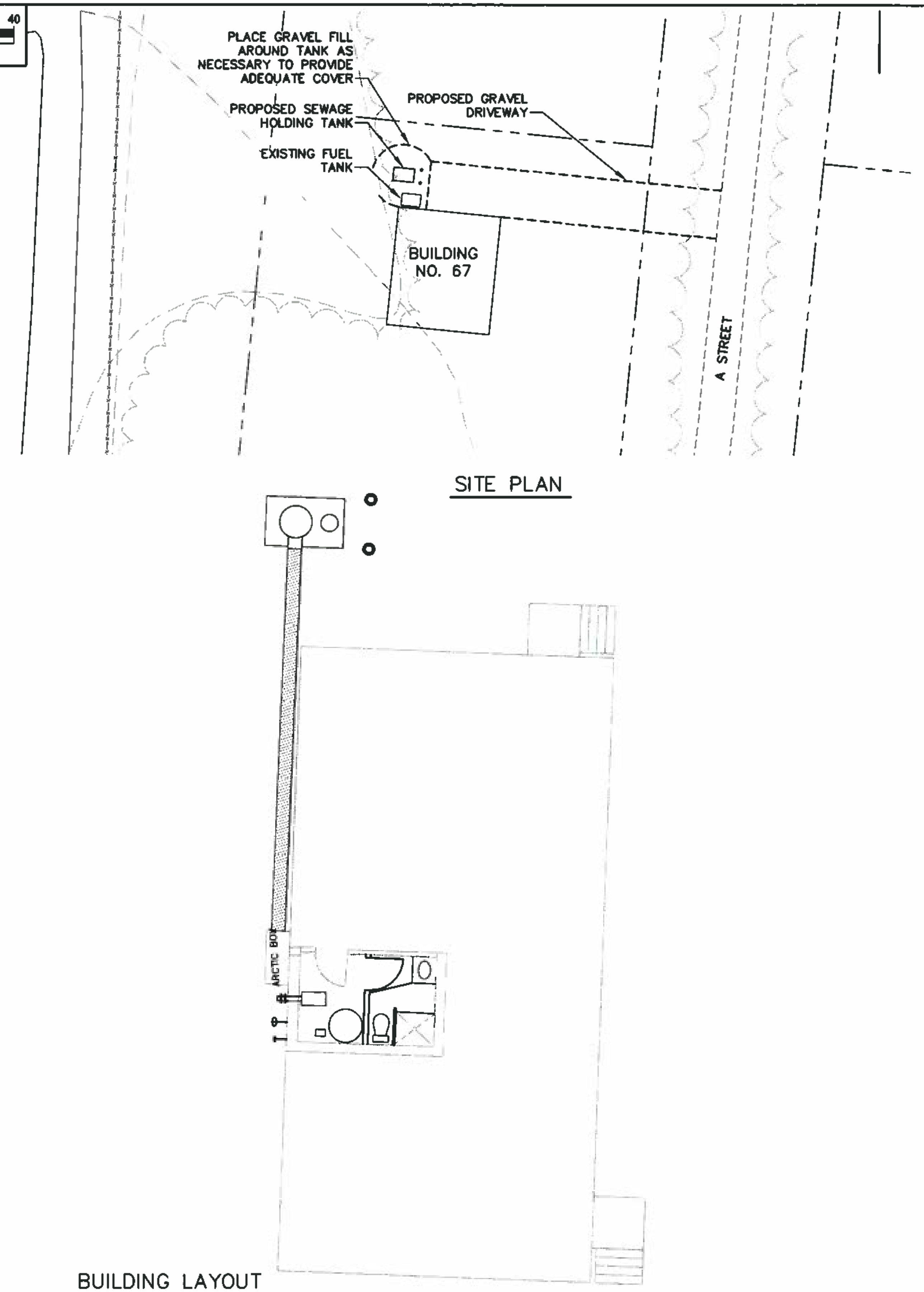


NOTE: SEWAGE HOLDING TANK INSTALLED. NO OTHER COMPONENTS INSTALLED.

BUILDING LAYOUT
3/32" = 1' (HALF SIZE)

1 BUILDING 66 - MICHAEL WILLIAMS
AS SHOWN





BUILDING LAYOUT
3/32" = 1' (HALF SIZE)

2 BUILDING 67 - BIRDIE BILLY
AS SHOWN

RECORD DRAWING CERTIFICATE
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NAME M. Legunecke DATE 2/09

STATE OF ALASKA — 49TH — Mike Legunecke CE 11006 — REGISTERED PROFESSIONAL ENGINEER

VILLAGE SAFE WATER

STATE OF ALASKA — 49TH — MICHAEL LEGUNECKE 11006 — REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

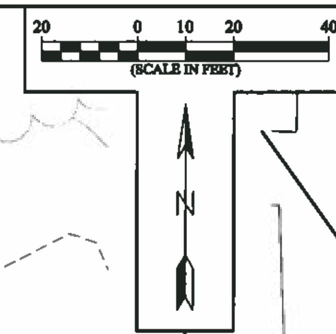
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
MICHAEL WILLIAMS - BUILDING 66
BIRDIE BILLY - BUILDING 67

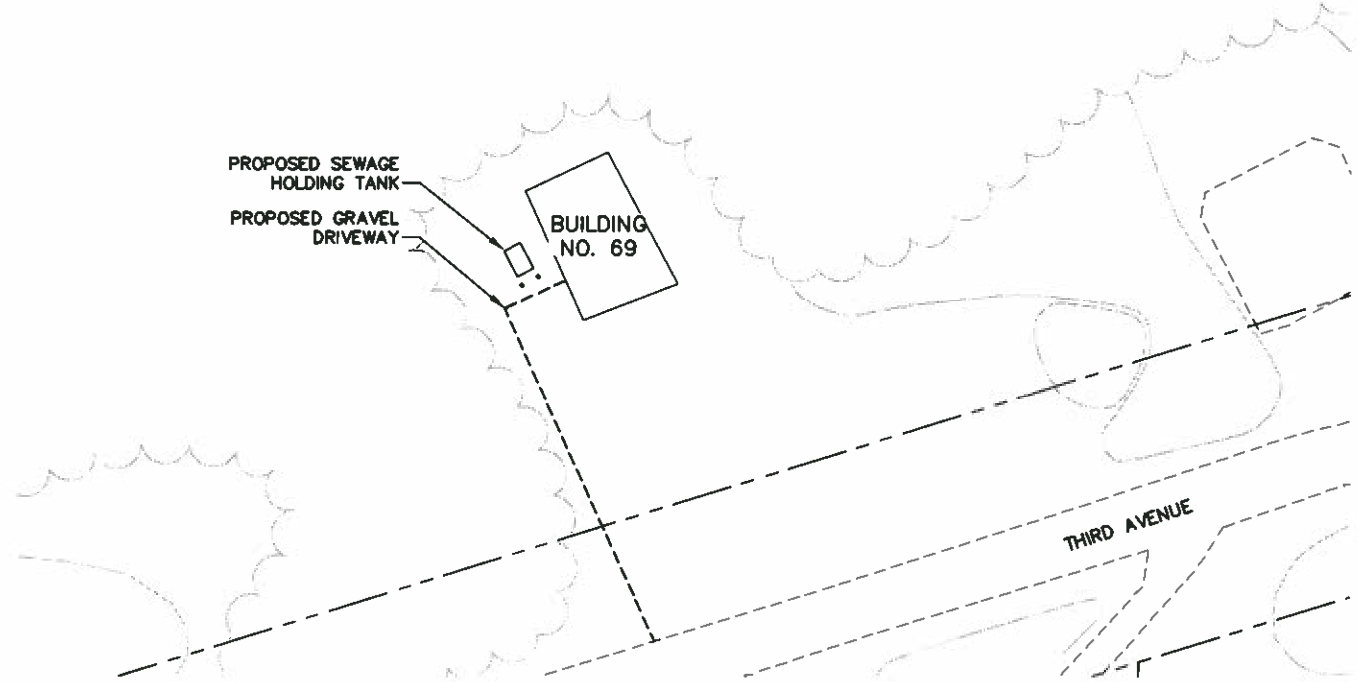
REVISION	BY	DATE
1 AS-BUILT	ML	2/09

Project No. 9966
Date MAY 2006
Designed MJL
Drawn MJL
Approved MJL

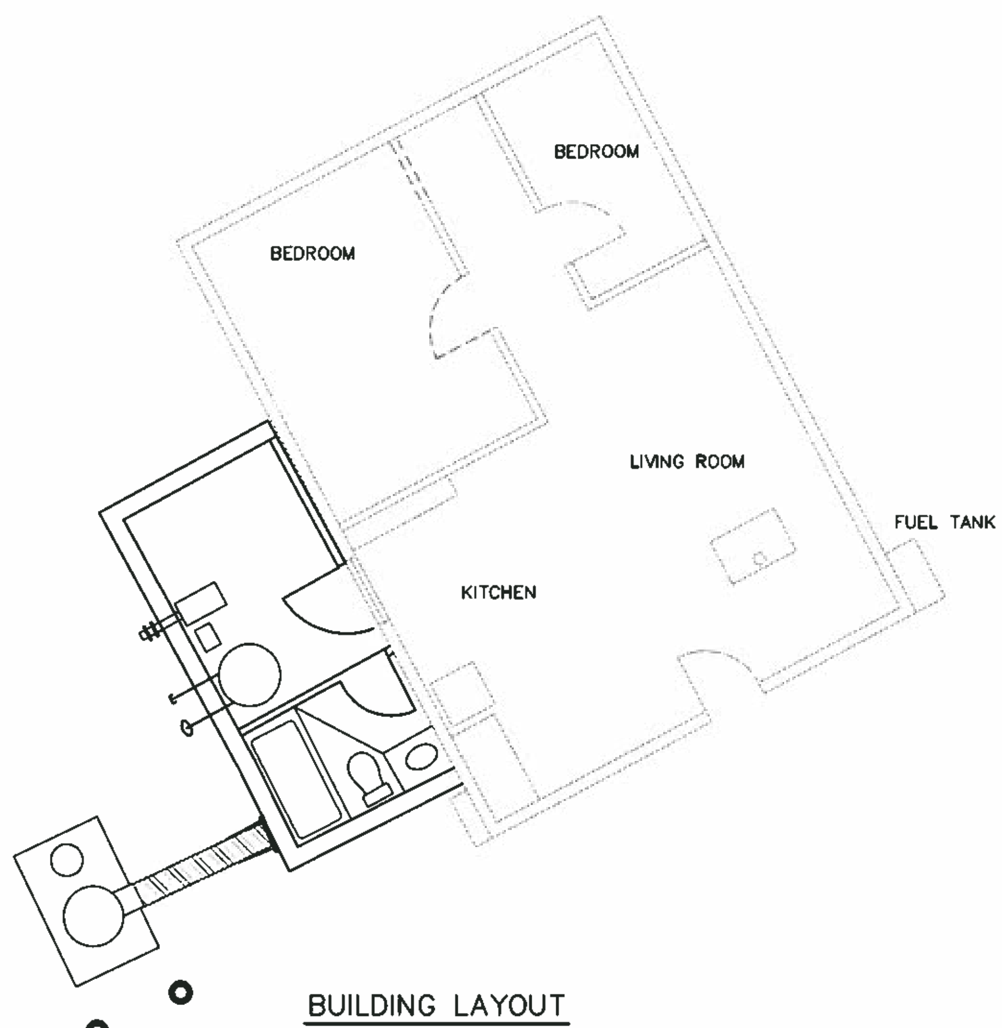
Sheet No.
SHEET C17 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg



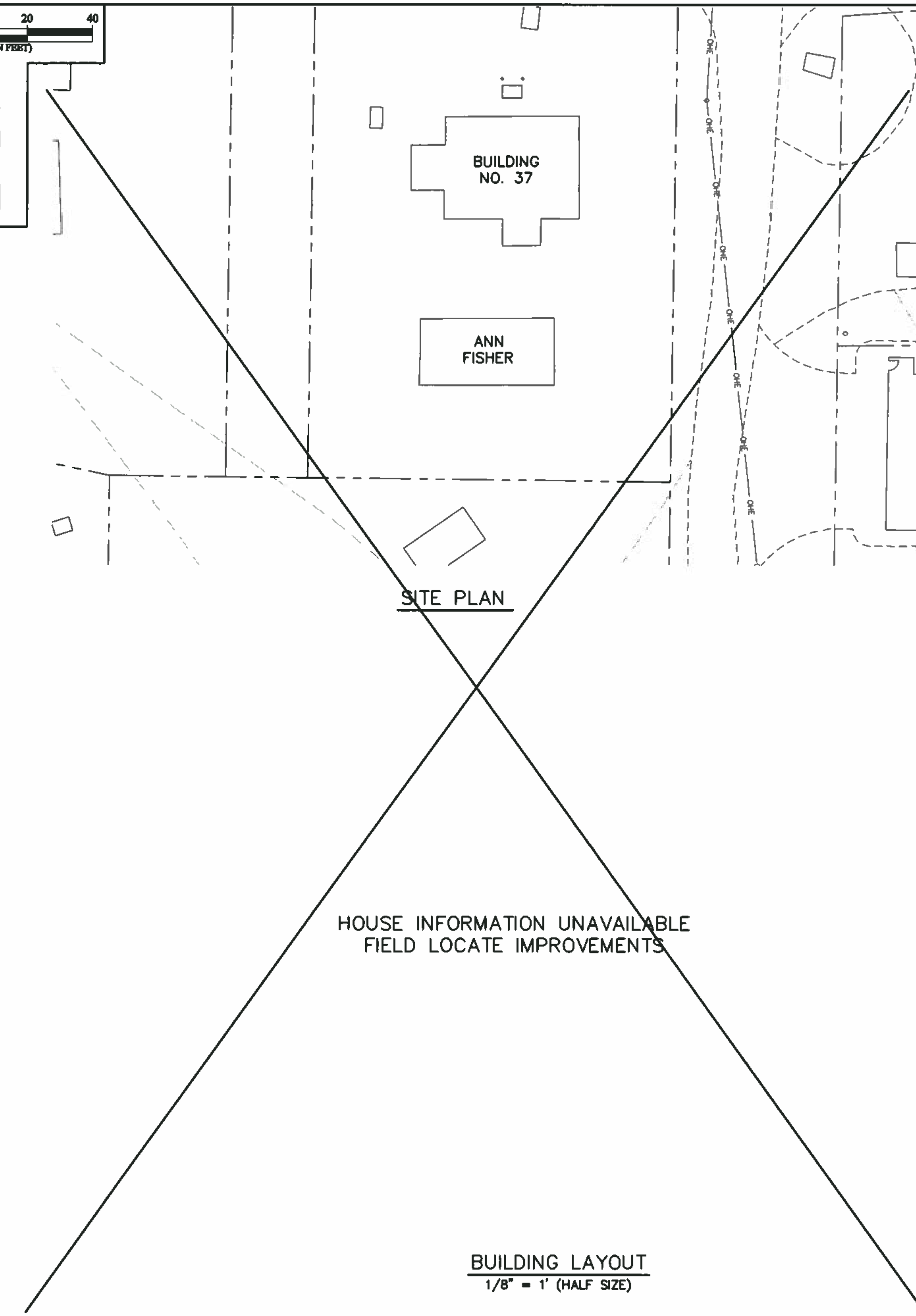


SITE PLAN



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 BUILDING 69 - DORTHEA ADAMS
AS SHOWN



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2 BUILDING UN - ANN FISHER
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME: M. Lequieuche
DATE: 2/09

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC
3900 ARCTIC BLVD., SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

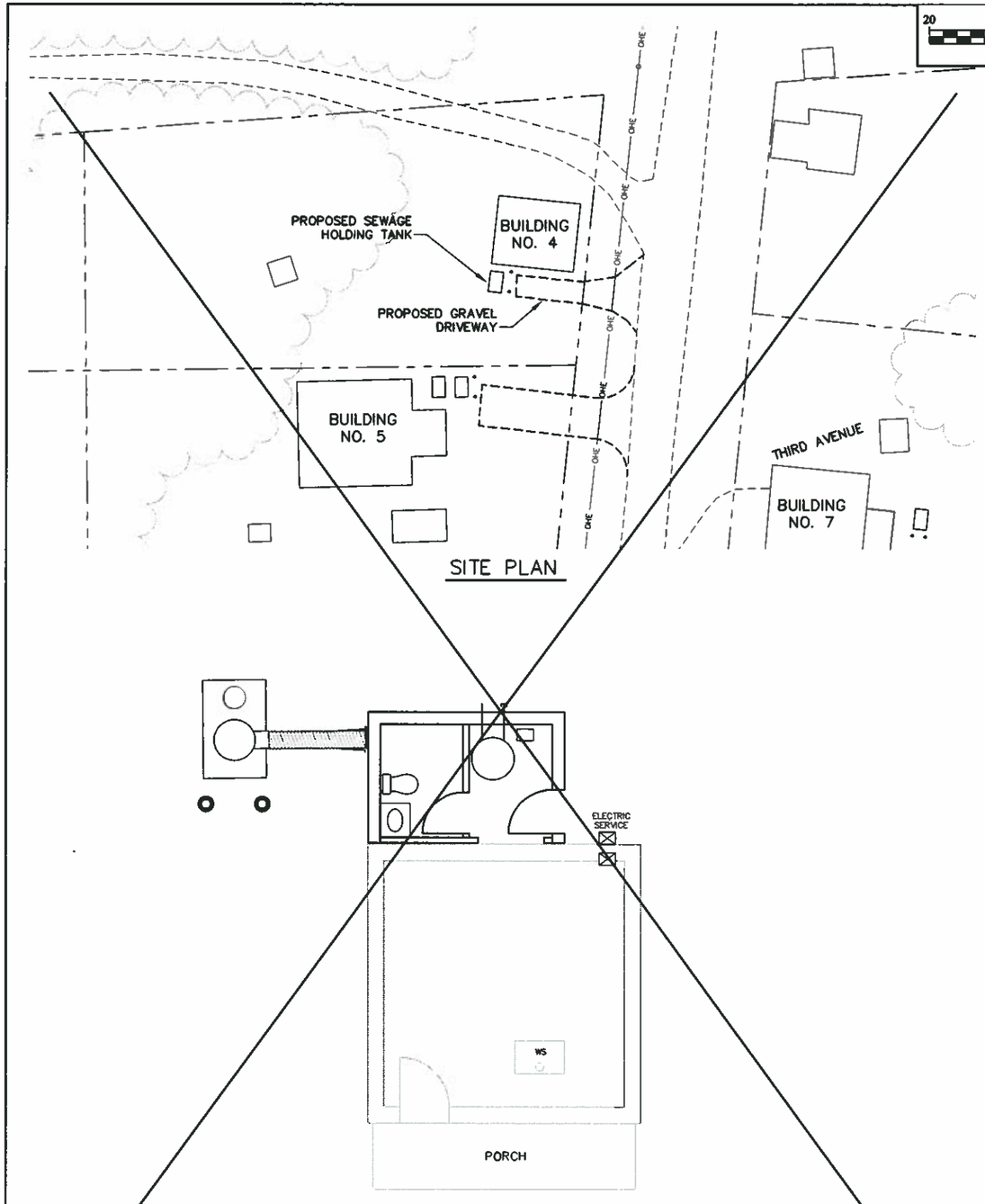
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
DORETHEA ADAMS - BUILDING 69
~~ANN FISHER - BUILDING UN~~

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

Project No.	9966
Date	MAY 2006
Designed	M.L.
Drawn	M.L.
Approved	M.L.

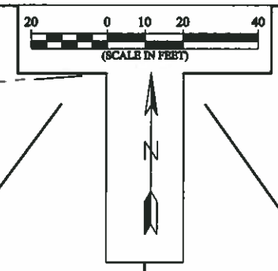
Sheet No.
SHEET C18 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg



BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 — BUILDING 4 - BARBARA SOLARI
AS SHOWN



HOUSE INFORMATION UNAVAILABLE
FIELD LOCATE IMPROVEMENTS

SITE PLAN

HOUSE INFORMATION UNAVAILABLE
FIELD LOCATE IMPROVEMENTS

BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

2 — BUILDING UN - CHARLOTTE CRUIKSHANK
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME M. Lagomarsino DATE 2/09

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — Mike Lagomarsino CE 11009

VILLAGE SAFE WATER

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — MICHAEL LEGUINECHE 11006

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

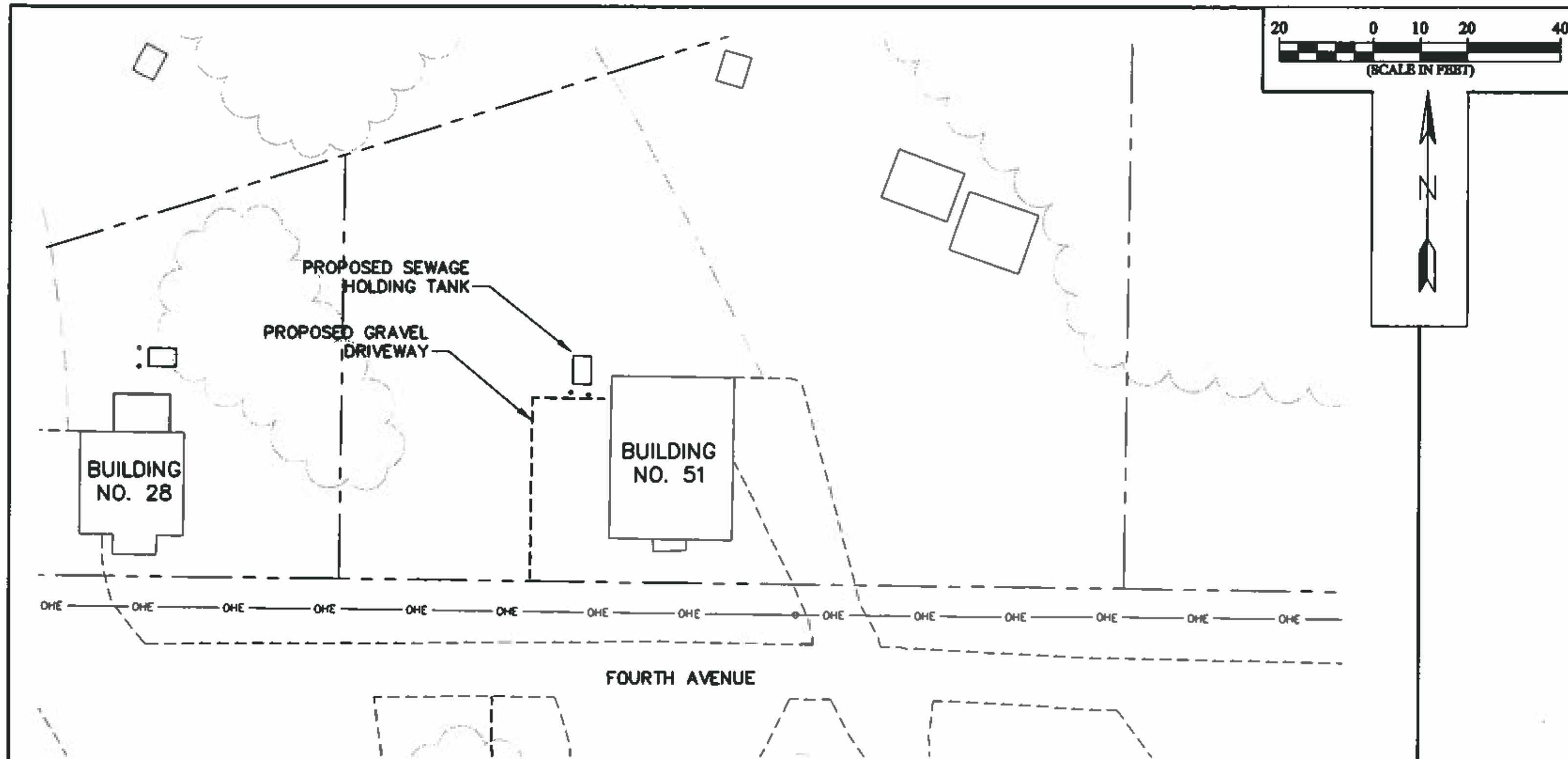
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
1 ~~BARBARA SOLARI — BUILDING 4~~
~~CHARLOTTE CRUIKSHANK — BUILDING UN~~

REVISION	BY	DATE
1 AS-BUILT	ML	2/09

Project No. 9966
Date MAY- 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No.
SHEET C19 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg



SITE PLAN

HOUSE INFORMATION UNAVAILABLE
FIELD LOCATE IMPROVEMENTS

BUILDING LAYOUT
1/8" = 1' (HALF SIZE)

1 BUILDING 51 - CHARLIE YATLIN
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME DATE

VILLAGE SAFE WATER

CRW ENGINEERING GROUP, LLC

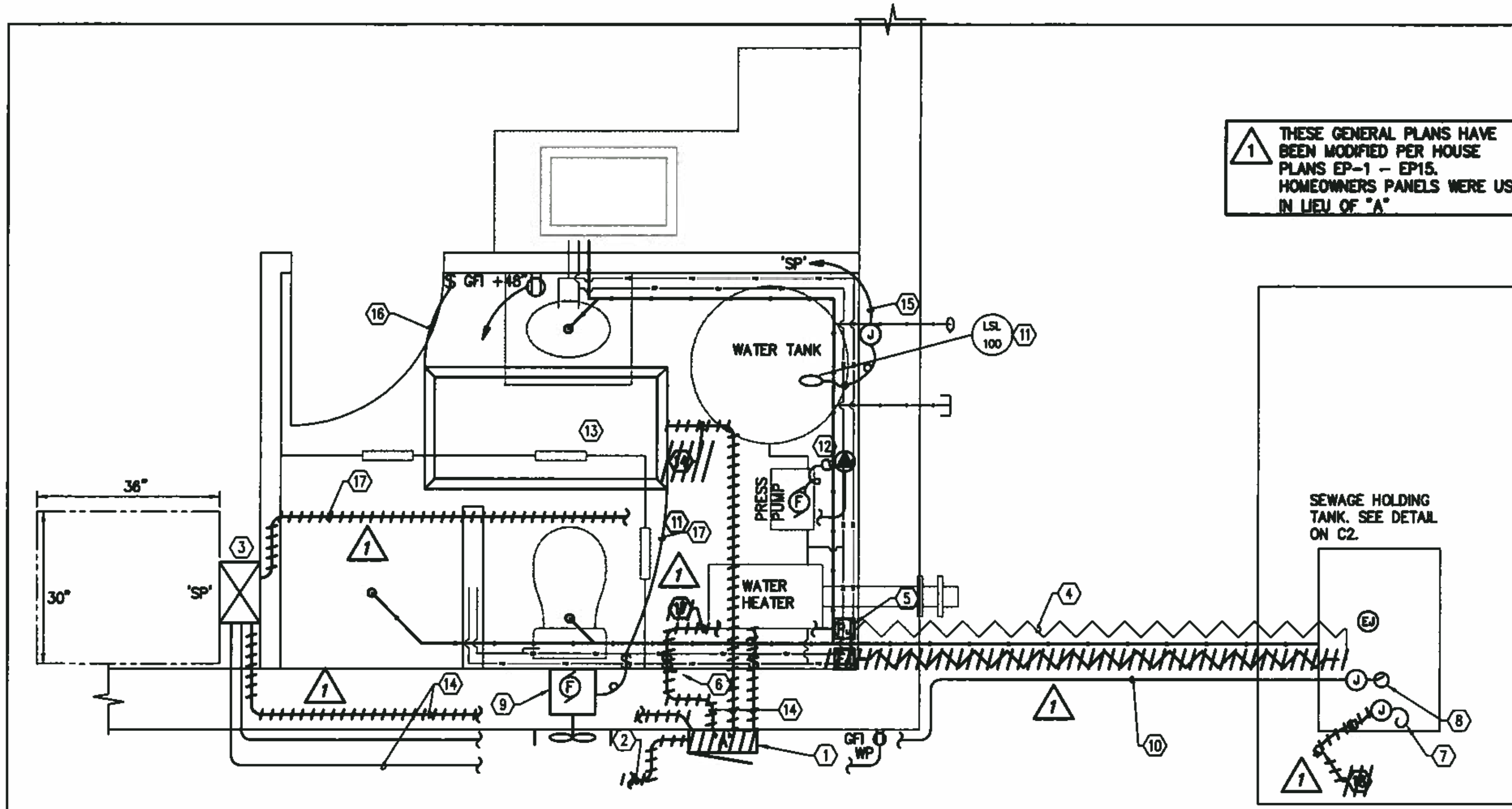
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
SITE PLAN & BATHROOM LAYOUT
CHARLIE YATLIN - BUILDING 51

REVISION	BY	DATE
AS-BUILT	ML	2/09

Project No. 9966
Date MAY 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No.
SHEET C20 OF C20

File: 9966 Beaver_Record_C7-C20 Base.dwg



(1) INTERIOR BATHROOM ADDITION ELECTRICAL PLAN

SCALE: 3/4" = 1' – 0"

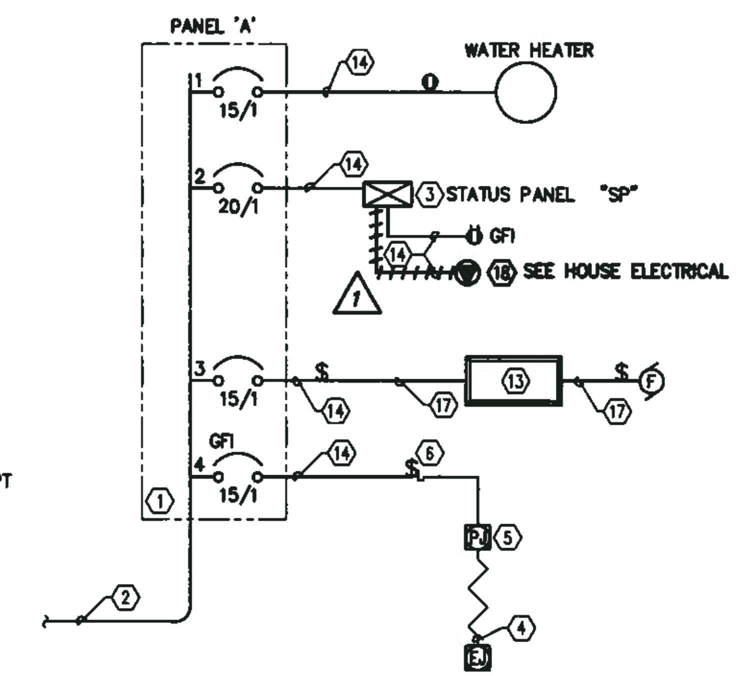
NOTES

1. 120/240V, 1ø, 100A, 6 SPACE, NEMA 3R, LOAD CENTER. SQUARE D # Q0612L100TRB.
2. 3/4"C, 3#8 (2H,N) & 1#10 (G). ROUTE TO NEW 50A, 2-POLE CIRCUIT BREAKER INSTALLED HOMEOWNER'S PANELBOARD OR METER/MAIN DEVICE IF SPACE IS AVAILABLE. IF SPACE IS UNAVAILABLE IN EXISTING EQUIPMENT FOR NEW BREAKER, PROVIDE A 50A/240V, 2-POLE, NEMA 3R, SELF-ENCLOSED CIRCUIT BREAKER SQUARE D #FAL22050 & #FA100RB AND TAP OFF OF LOAD SIDE OF METER/MAIN DEVICE.
3. STATUS PANEL 'SP'. SEE DWG E3. LOCATE PANEL SO THAT IT HAS A CLEAR SPACE OF 30" WIDE, 36" DEEP AND 72" HIGH IN FRONT OF THE PANEL.
4. 120V, 10W/FT SELF-LIMITING HEAT TRACE. NELSON TYPE LT1D-J. ROUTE INSIDE CARRIER PIPE OF SEWER LINE ARCTIC PIPE.
5. HEAT TRACE POWER CONNECTION KIT. NELSON # LT-BC.
6. 120V, 20A, WALL SWITCH WITH RED PILOT LIGHT. LEVITON #1221-PLR OR EQUAL. PROVIDE WITH 'HEAT TRACE' LABEL.
7. IMMERSION HEATER, 120V, 2KW, W/ CIRCULAR ELEMENTS, SLUDGE LEGS & SPLIT RISER. CHROMALOX # KTLI-220A-063XX.
8. LEVEL PROBE. SEE COMPONENT SCHEDULE, ITEM 5 ON SHEET E3. ADJUST HEIGHT OF PROBE SO THAT THE SETPOINTS SHOWN ON E3 ARE ACHIEVED.
9. BATHROOM EXHAUST FAN, THROUGH-THE-WALL TYPE, 120V. NUTONE MODEL 8870. FAN TO TURN ON WITH LIGHT.
10. 1/2"C, W/LEVEL PROBE CABLE.

    FLOAT SWITCH. SJE SIGNALMASTER SPDT 1006098. HANG FLOAT TO OPERATE JUST ABOVE WATER INTAKE LINE.
12. 120V, 20A SIMPLEX RECEPTACLE.
13. 120V FLUORESCENT FIXTURE, 2-LAMP, SURFACE MOUNT. LITHONIA #DM232120.
14. 1/2"C, 3#12 (H,N,G)
15. 1/2"C, 4#14 (H,2 SIG,G)
16. 1/2"C, 3#12 (H,SWITCHLEG,G)
17. 1/2"C, 3#12 (SWITCHLEG,N,G)
18. ~~GFI EQUIPPED CORD AND PLUG ASSEMBLY FOR IMMERSION HEATER. HUBBELL GFP1031 W/HBL5364VY PLUG AND HLD CAP.~~ (Revision 1)

LEGEND

- EXPOSED CONDUIT, GRC UNLESS OTHERWISE SHOWN
- X/Y — MOLDED CASE CIRCUIT BREAKER, X=AMPERE RATING, Y=NO. OF POLES
- X-Y,Z — HOMERUN TO PANEL "X", CIRCUITS NO. Y AND Z, CONDUITS NOT OTHERWISE DEFINED ARE 3/4"C WITH 3#12.
- LIQUID-TIGHT FLEXIBLE CONDUIT
- PANELBOARD
- STATUS PANEL
- J — JUNCTION BOX OR FITTING
- $ — SINGLE POLE SWITCH. BRYANT #4901
- $L — SINGLE POLE SWITCH WITH PILOT LIGHT
- $3 — 120V, 20A DPDT SNAP SWITCH. BRYANT #CSB220BI
- 120V DUPLEX RECEPTACLE, NEMA CONFIGURATION 5 – 20R. BRYANT #5262
- GFI — 120V DUPLEX GROUND FAULT INTERRUPT RECEPTACLE, NEMA CONFIGURATION 5 – 20R. BRYANT #GFR52FT
- SIMPLEX RECEPTACLE, 120V, 15A, LEVITON #5088
- PJ — HEAT TRACE POWER POINT
- EJ — HEAT TRACE END POINT
- HEAT TRACE
- FLOAT SWITCH



(2) POWER ONE-LINE

SCALE: NONE

GENERAL SPECIFICATIONS

ALL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) BY OR UNDER THE SUPERVISION OF STATE OF ALASKA LICENSED JOURNEYMEN ELECTRICIANS.

ALL WIRING SHALL BE IN METALLIC CONDUIT IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

ALL EXTERIOR WIRING SHALL BE GALVANIZED RIGID METAL CONDUIT.

ALL EXPOSED INTERIOR WIRING SHALL BE IN EMT, AC OR LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT. INTERIOR WIRING CONCEALED IN WALLS MAY BE MC CABLE OR NON-METALLIC SHEATHED CABLE.

CONDUIT SUPPORT SHALL BE PROVIDED WITH 2-HOLE STRAPS (INTERIOR AND EXTERIOR). PINCH TYPE (CADDY) CLAMPS ARE APPROVED FOR USE ON EMT OR GRC ON INTERIOR WALLS AND CEILING ONLY.

CONDUCTORS FOR USE ON THIS PROJECT SHALL BE STRANDED COPPER WITH THWN-2 INSULATION FOR INTERIOR AND XHHW-2 INSULATION FOR EXTERIOR. COLOR CODE AS FOLLOWS:
120/240V WIRING- PHASE A=BLACK, PHASE B=RED, NEUTRAL=WHITE, GROUND=GREEN OR BARE COPPER.

CONTROL WIRING- ANY COLOR OTHER THAN RED, BLACK, BLUE GREEN OR WHITE AS ALLOWED UNDER U/L AND NFPA 79.

UNLESS OTHERWISE NOTED, ALL WIRING SHOWN SHALL CONSIST OF 1/2"C, 3#12. ONE OF THE #12 IS A GREEN (OR BARE) GROUND.

FITTINGS – ALL NON-HUB CONDUIT TERMINATIONS SHALL BE BUSHED EITHER WITH NON-METALLIC BUSHINGS ON THREADED CONDUITS OR INSULATED THROAT CONNECTORS ON EMT AND FLEXIBLE CONDUITS. EMT COUPLINGS AND CONNECTORS SHALL BE COMPRESSION TYPE – NO SETSCREW TYPE ALLOWED.

BOXES SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
EXTERIOR WITH GRC: NEMA 4, TYPE FS OR FD DEVICE CAST BOXES WITH GASKETED COVER.
INTERIOR WITH EMT: PRESSED STEEL WITH APPROPRIATE GALVANIZED DEVICE COVER.

ALL DEVICES SHALL BE SERVED FROM ABOVE UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS.

ALL COMPONENTS FURNISHED FOR THIS PROJECT SHALL BE LISTED OR LABELED BY AN AGENCY ACCEPTABLE TO THE STATE OF ALASKA DEPARTMENT OF LABOR MECHANICAL INSPECTIONS DIVISION. U/L (UNDERWRITERS LABORATORIES) ETL (EDISON TEST LAB) FM (FACTORY MUTUAL) ARE ACCEPTABLE. NOTE THAT NRTL APPROVAL IS REQUIRED FOR CSA LABELS.

INSTALLATION OF CONTROLS AND CALIBRATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. PROVIDE COPIES OF ALL CUT SHEETS AND DOCUMENTATION RECEIVED DURING SHIPPING TO OWNERS REPRESENTATIVE UPON COMPLETION.

COORDINATE INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. MAINTAIN CLEARSPACE AT ALL COMPONENTS THAT MAY REQUIRE ADJUSTING OR TROUBLE SHOOTING WHILE ENERGIZED.

IDENTIFICATION
MARK ALL CONDUITS ENTERING OR LEAVING PANELBOARDS WITH INEDIBLE BLACK MARKER WITH THE CIRCUIT NUMBERS OF THE CIRCUITS CONTAINED INSIDE. MARK CIRCUIT NUMBERS ON ALL JUNCTION BOX COVERS. ALL CONTROL CONDUCTORS TO CONTROL PANELS, INSTRUMENTS, STARTERS, etc., SHALL BE IDENTIFIED WITH A UNIQUE NUMBERING SYSTEM.

TESTING
TEST ALL CONDUCTORS PRIOR TO TERMINATION WITH A 500VDC MEGOHMETER. REPLACE ALL CONDUCTORS EXHIBITING LESS THAN 1D MEGOHM IMPEDANCE. REPEAT TEST.

MATERIALS
GENERAL COMPONENTS SHALL BE AS CALLED OUT ON THE PLANS AND LEGEND. PROVIDE AS SPECIFIED AND SHOWN. MANUFACTURER AND PART NUMBER DESIGNATIONS INDICATE THE MINIMUM PERFORMANCE AND QUALITY REQUIRED ON THIS PROJECT.

SUBMITTALS
SUBMIT FOR APPROVAL MANUFACTURER'S CATALOG DATA ON ALL ELECTRICAL MATERIAL INTENDED FOR USE ON THIS PROJECT. SUBMITTALS SHALL CLEARLY IDENTIFY THE MODEL, PROPERTIES, OPTIONAL ACCESSORIES, ETC. OF THE COMPONENT BEING PROVIDED.

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME: [signature] DATE: 11/11/08

VILLAGE SAFE WATER

STATE OF ALASKA — 49TH — William M. McDonald — EE 7079 — REGISTERED PROFESSIONAL ENGINEER

EDC, Inc.
213 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 276-7933

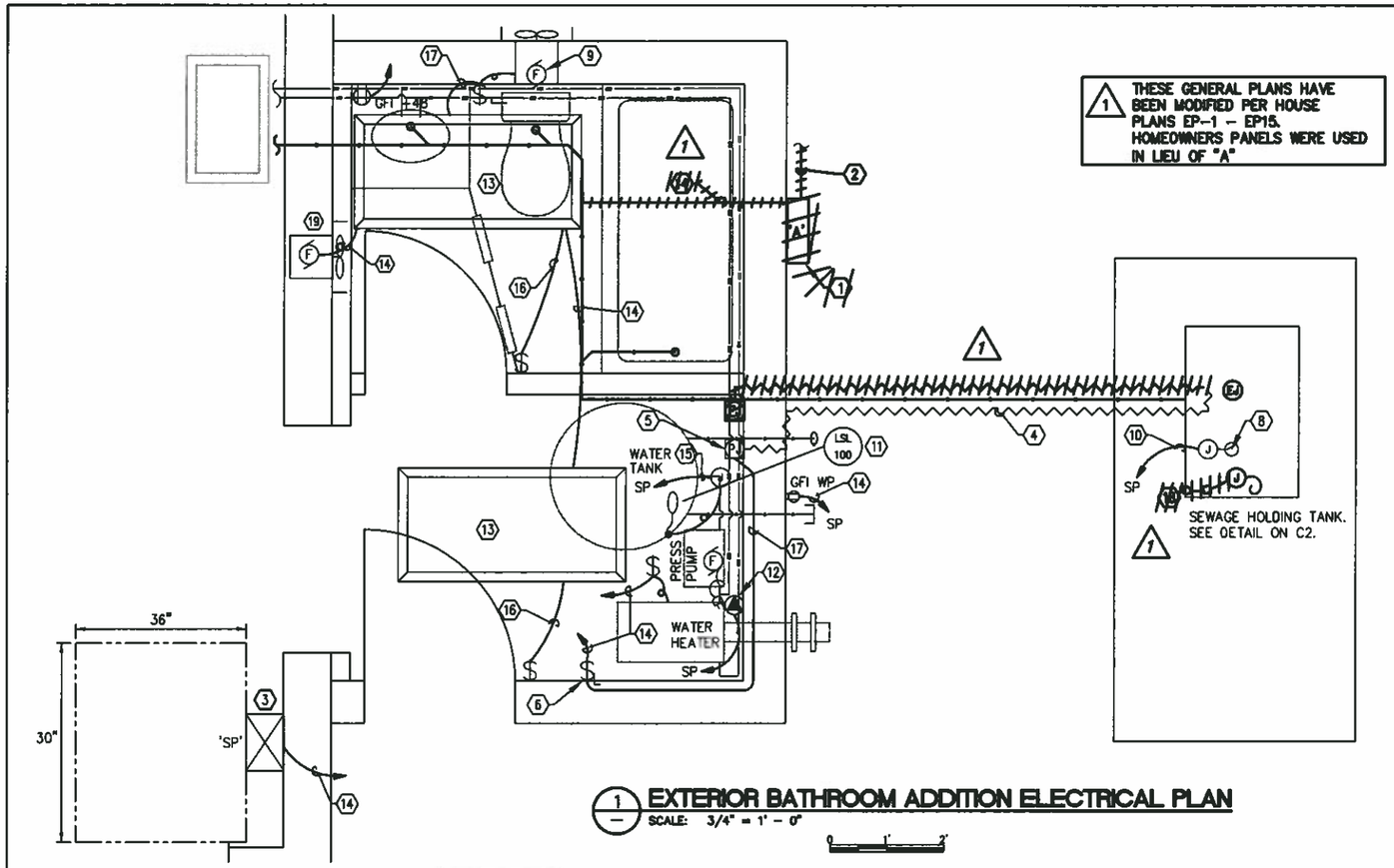
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES

INTERIOR BATHROOM ADDITION
ELECTRICAL PLAN AND ONE-LINE

REVISION	BY	DATE
IMMERSION HTR CONNECTION	JHF	10/07
1 AS-BUILT	ML	1/09

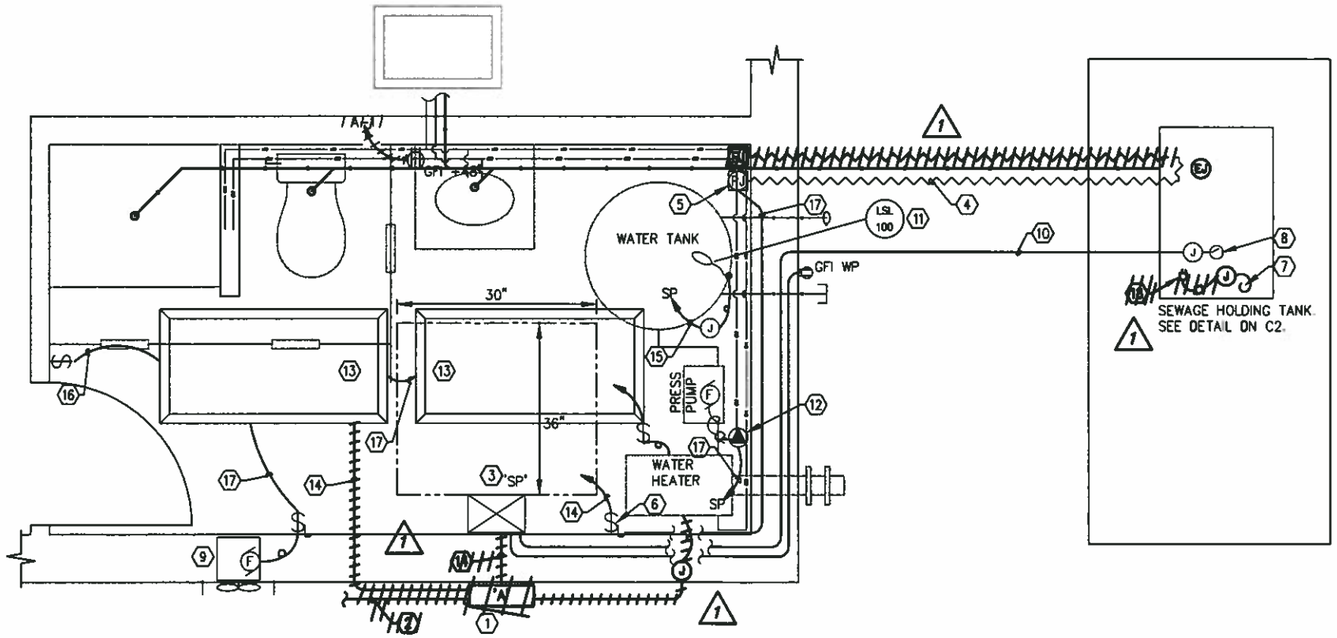
Project No. CRWBVR
Date MARCH 2006
Designed JHF
Drawn AYN
Approved

SHEET E1 OF E3



1 EXTERIOR BATHROOM ADDITION ELECTRICAL PLAN

SCALE: 3/4" = 1' - 0"

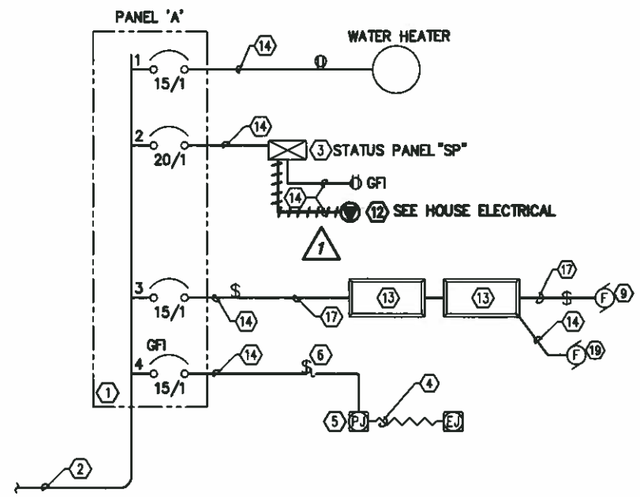


2 INTERIOR HUD HOME BATHROOM ADDITION ELECTRICAL PLAN

SCALE: 3/4" = 1' - 0"

NOTES

1. 120/240V, 1ø, 100A, 6 SPACE, NEMA 3R, LOAD CENTER. SQUARE D # QO612L100TRB.
2. 3/4"C, 3#8 (2H,N) & 1#10 (G). ROUTE TO NEW 50A, 2-POLE CIRCUIT BREAKER INSTALLED HOMEOWNER'S PANELBOARD OR METER/MAIN DEVICE IF SPACE IS AVAILABLE. IF SPACE IS UNAVAILABLE IN EXISTING EQUIPMENT FOR NEW BREAKER, PROVIDE A 50A/240V, 2-POLE, NEMA 3R, SELF-ENCLOSED CIRCUIT BREAKER SQUARE D #FAL22050 & #FA100RB AND TAP OFF OF LOAD SIDE OF METER/MAIN DEVICE.
3. STATUS PANEL 'SP'. SEE 0WG E3. LOCATE PANEL SO THAT IT HAS A CLEAR SPACE OF 30" WIDE, 36" DEEP AND 72" HIGH IN FRONT OF THE PANEL.
4. 120V, 10W/FT SELF-LIMITING HEAT TRACE. NELSON TYPE LT10-J. ROUTE INSIDE CARRIER PIPE OF SEWER LINE ARCTIC PIPE.
5. HEAT TRACE POWER CONNECTION KIT. NELSON # LT-BC.
6. 120V, 20A, WALL SWITCH WITH RED PILOT LIGHT. LEVITON #1221-PLR OR EQUAL. PROVIDE WITH 'HEAT TRACE' LABEL.
7. IMMERSION HEATER, 120V, 2KW CIRCULAR ELEMENTS, SLUDGE LEGS & SPLIT RISER, CHROMALOX CAT# KTIJ-220A-063XX.
8. LEVEL PROBE. SEE COMPONENT SCHEDULE, ITEM 5 ON SHEET E3. ADJUST HEIGHT OF PROBE SO THAT THE SETPOINTS SHOWN ON E3 ARE ACHIEVED.
9. BATHROOM EXHAUST FAN, THROUGH-THE-WALL TYPE, 120V. NUTONE MODEL 8870. FAN TO TURN ON WITH LIGHT.
10. 1/2"C, W/LEVEL PROBE CABLE.
11. FLOAT SWITCH. SJE SIGNALMASTER SPDT 1006098. HANG FLOAT TO OPERATE JUST ABOVE WATER INTAKE LINE.
12. 120V, 20A SIMPLEX RECEPTACLE.
13. 120V FLUORESCENT FIXTURE, 2-LAMP, SURFACE MOUNT. LITHONIA #DM232120.
14. 1/2"C, 3#12 (H,N,G)
15. 1/2"C, 4#14 (H,2 SIG,G)
16. 1/2"C, 3#12 (H,SWITCHLEG,G)
17. 1/2"C, 3#12 (SWITCHLEG,N,G) 1
18. ~~GFI EQUIPPED CORD AND PLUG ASSEMBLY FOR IMMERSION HEATER. HUBBELL GFP1301 W/HBL5364VY PLUG AND HLD CAP.~~
19. BATHROOM WARM AIR CIRC FAN, THROUGH-THE-WALL TYPE, 120V, PENN MODEL TRANSFAN. USED IN EXTERIOR BATHROOM (DETAIL 1) ONLY.



3 POWER ONE-LINE

SCALE: NONE

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11/11/08 DATE
NAME

VILLAGE SAFE WATER

STATE OF ALASKA — 49 TH — REGISTERED PROFESSIONAL ENGINEER — William M. McDaniel — EE 7879

EDC, Inc.
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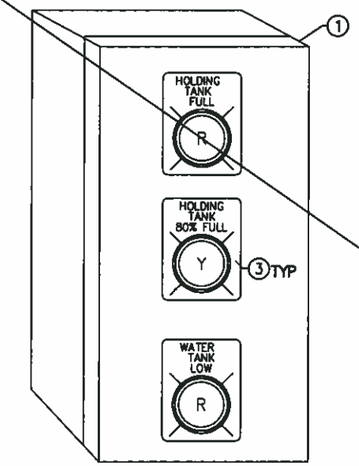
VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES

TYPICAL BATHROOM ADDITION ELECTRICAL PLANS AND ONE-LINE

BY	DATE	REVISION
MF	10/07	IMERSION HTR CONECTION
ME	1/08	AS-BUILT

Project No. CRWBVR
Date MARCH 2008
Designed ME
Drawn AWL
Approved

SHEET E2 OF E3



① **STATUS PANEL LAYOUT**
SCALE: NONE

FUNCTIONAL NARRATIVE

THE STATUS PANEL DISPLAYS SEWAGE HOLDING TANK 80% FULL AND FULL CONDITIONS, AND A WATER TANK LOW LEVEL CONDITION. THE PANEL PREVENTS THE OPERATION OF THE WATER PRESSURE PUMP WHENEVER A WATER TANK LOW LEVEL OR FULL SEWAGE HOLDING TANK CONDITION OCCURS. IT ALSO PREVENTS THE OPERATION OF THE SEWAGE HOLDING TANK IMMERSION HEATER WHENEVER THE LEVEL IN THE TANK IS SUCH THAT THE HEATER IS NOT FULLY IMMERSED.

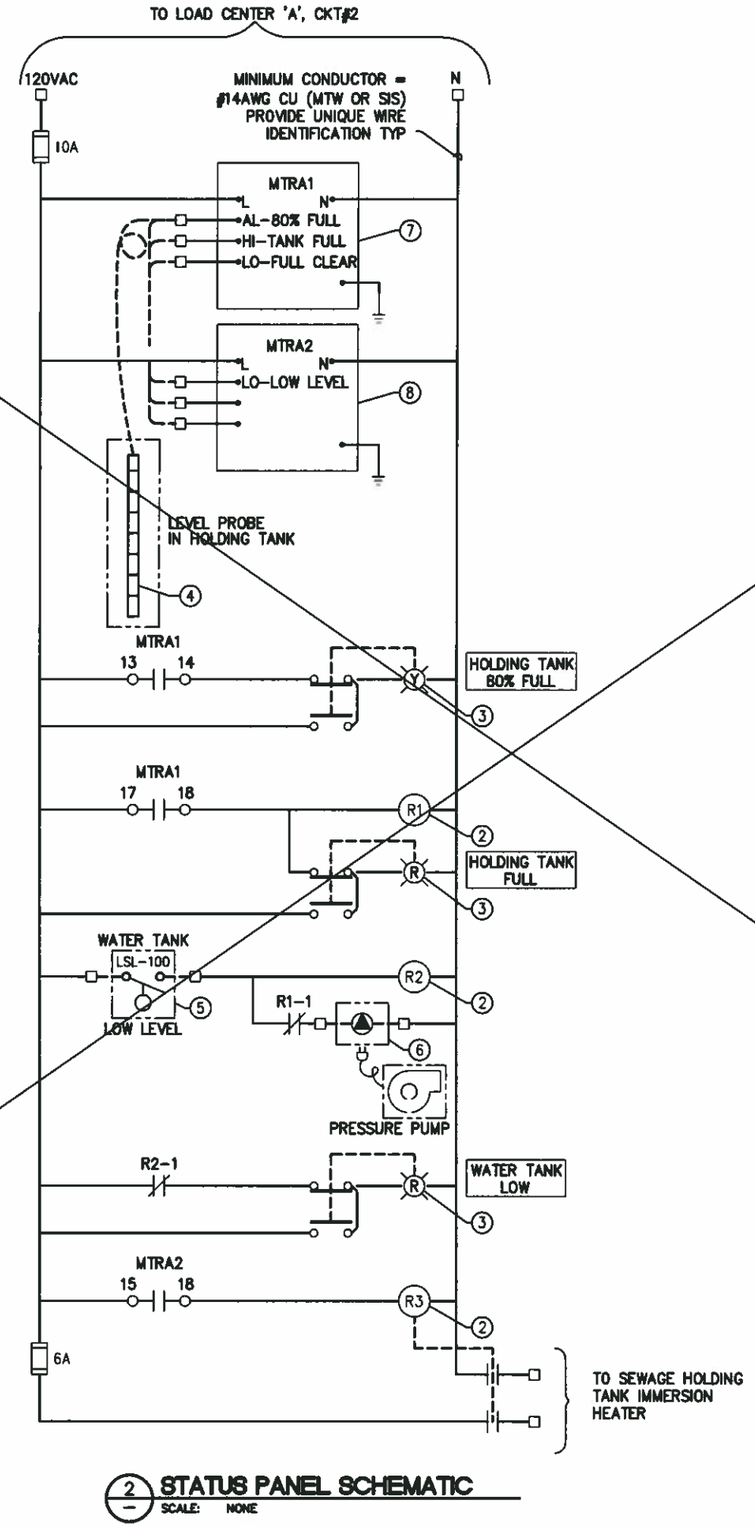
SEWAGE HOLDING TANK LEVEL SETPOINTS

LEVELS SHOWN ARE IN INCHES MEASURED FROM THE BOTTOM OF THE TANK.

TANK FULL – 36"
TANK 80% FULL – 32"
IMMERSION HEATER DISABLE – 8" OR BELOW

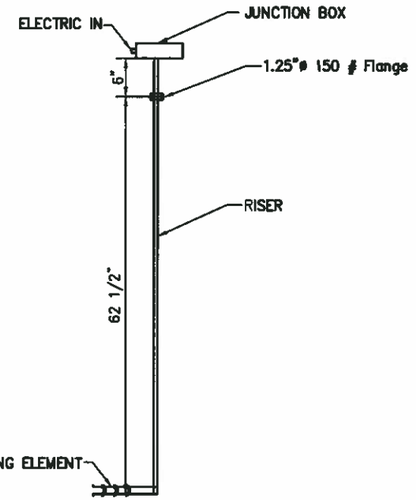
LEGEND

□ FIELD WIRING TERMINAL
○ OR • PANEL OR DEVICE TERMINAL
FIELD DEVICE



② **STATUS PANEL SCHEMATIC**
SCALE: NONE

#	COMPONENT SCHEDULE
①	NEMA 1, ENCLOSURE W/ HINGED LOCKABLE DOOR AND REMOVABLE BACKPLATE FOR MOUNTING COMPONENTS. SIZE AS REQUIRED. HOFFMAN OR EQUAL.
②	120V RELAY, 3PDT, 11-PIN OCTAL SOCKET MOUNT W/ PILOT LIGHT. SQUARE D TYPE KP13P1HV20
③	PILOT LIGHT, PUSH TO TEST, 120V, LED, NEMA 4X, LENS TINT AS SHOWN SQUARE D TYPE SKT, CLASS 9001
④	MULTITRODE LIQUID LEVEL SENSOR, 40 INCHES LONG WITH 10 SENSOR POINTS AT 4 INCH SPACINGS (FLYGT #40/10-33).
⑤	N.O., 120V, 5A, FLOAT SWITCH SJE RHOMBUS SIGNALMASTER PART # 10SGMPCN0.
⑥	120V, 15A, SIMPLEX RECEPTACLE. LEVITON # 5088.
⑦	LEVEL RELAY W/ ALARM, 120V, 2 N.O. CONTACTS (FLYGT #MTRA-3)
⑧	LEVEL ALARM RELAY, 120V, SPOT (FLYGT #MTR-3)



③ **IMMERSION HEATER DETAIL**
1A/B SCALE: 1" = 1'-0"

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11/11/08 DATE

VILLAGE SAFE WATER

EDC, Inc.
213 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 276-7933

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES

HOUSE STATUS PANEL
LAYOUT AND SCHEMATIC

BY	DATE
JMF	10/07

REVISION
IMMERSION HTR CONNECTION

Project No. CRTBEVR
Date MARCH 2006
Designed JMF
Drawn AWL
Approved

SHEET E3 OF E3

RESIDENTIAL INSTALLATION NOTES

Unless otherwise noted, all wiring consists of t/2"EMT and 3#t2.

STATUS PANEL SP

Function

Monitors Septic Tank levels using probes and conductance type relays
Displays Septic tank level at 80% and FULL conditions with front panel pilot lights
Monitors the water tank with a low-level float.
Displays Water Tank LOW condition with front panel pilot light
Provides controlled power for the water pump. Water pump is disabled when septic tank shows FULL or when the water tank is low.

Installation

Serve from dedicated 20A circuit breaker except
Use same circuit for the exterior GFCI receptacle, and on installations where the homeowners panel is used for power, power the Water Heater receptacle from SP (on TB L1A and N).
See CONTROL PANEL Drawings E3 and CONTROL CRAFT AS_BUILT for septic tank probes, water tank float and powered circuit terminations.

Requirements

Panels with direct connected cords will have the cords removed.
The Status Panels will serve receptacles only.
Status Panel will require clear space per NEC but has no externally operable controls so there is no mounting height restriction when relocating.

WATER PUMP

Function

Self contained.
Provides domestic water pressure.

Installation

Cord and plug connected to dedicated outlet served from SP.

Requirements

Dedicated simplex receptacle must be located adjacent to water pump location,
172W, t20V

WATER HEATER

Function

Self Contained,
Oil fired, Provides Domestic hot water.

Installation

Cord and plug connected to outlet that may be served from SP, or local outlet (GFCI outlet if located in bathroom).

Requirements

t20W (max), t20VAC

SEWER LINE HEAT TAPE

Function

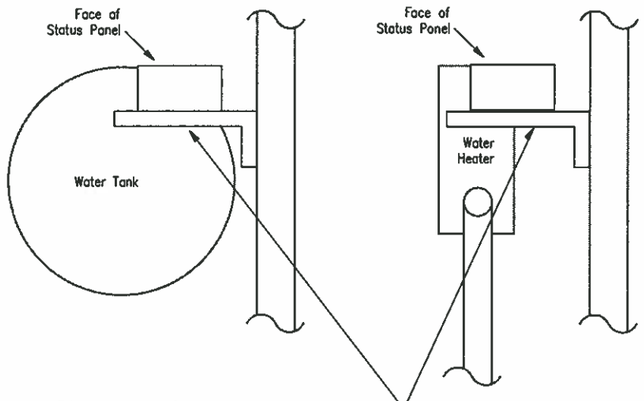
Freeze protection for sewer line
Provides supplementary heating of probe riser and holder assembly at septic tank.

Installation

Must be served from GFCI protected circuit, downstream of bothroom GFCI receptacle is acceptable.
Controlled by a pilot switch. Switch has placard "SEWER UNE HEAT TAPE".
Where installed, heat tape ends at septic tank manhole. See heat tape extension instructions
Heat tape must be guarded where run within residence. PVC chase to be installed at all exposed locations.

Requirements

120VAC, 15 / 20A GFCI protected circuit. Approx max demand = 500W



Fabricate supports from unistrut and angle (2-pieces) to allow maunting of the status ponel above the water tank or water heater, perpendicular to the wall. Locate supports so that the water tank or heater does not extend past the face of the panel.

1 — **ALTERNATE SP MOUNTING METHOD**
NO SCALE

COMPLETION CHECKLIST

Status Panel

Verify Ponel has required access and clear spoce (30"Wx36"Dx78"H)
Verify that all connections made to the enclosure are installed using approved wiring methods (connectors etc) and all unused penetrations are sealed.
Verify Panel is operational by simulating rising liquid levels ot the septic tank probe holder.

Homeowners Distribution panel

Verify all of the breakers associated with the Bathroom Upgrade project have been identified in the panel schedule.

Water Pump

Verify that the water pump is cord and plug connected to a simplex receptacle, powered from the Status Panel terminals "N", "G", and "4".

Sewer Line Heat Tape

Verify that the heat tape is on a GFCI protected circuit.
Verify that there is a heat tape pilot switch and that the switch has a label stating "SEWER LINE HEAT TAPE"
Verify that the sewer line heat tape has been extended to the probe holder and flanged riser.
Verify the heat tape extension splice point is insulated and that an end kit has been installed.

Water Heater

Verify that it has a local outlet – no extension cords. If located in bathroom, receptacle must be either on a GFCI. breaker ar GFCI receptacle.

Water Tank Float

Verify that the float cord runs directly to either a j-box or the status panel and is connected using an approved cord connector.
Verify cord is not attached to the building structure and routed in a way that will expose it to mechanical damage.

Sewage Holding Tank Heater power supply

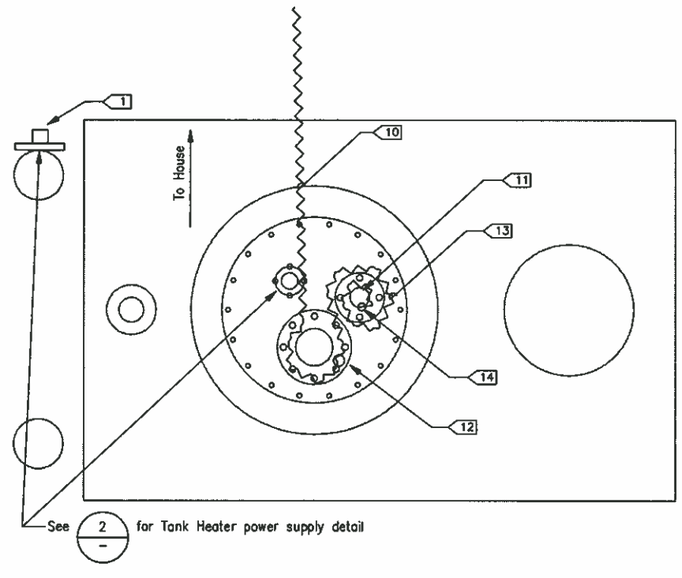
Verify cable connectors are secure and secure the cable.
Verify the connector box is maunted firmly.
Verify that residence has been provided with a 20A rated extension cord and that it reaches the outside outlet.
Verify the heater works when plugged in. Either monitor current or observe kWH meter.

Verify that the manhole cover gasket is in place and all of the bolts are tight.

2 — **TANK HEATER POWER SUPPLY**
NO SCALE

SHEET NOTES

1. Power inlet in weather proof junction box with cover. Mount on Bollard nearest house. BELL P/N 5385-0 box, HUBBELL P/N HBL5378C 20A/120V inlet, BELL P/N 5029-0 cover. See Detail 2.
2. t/2" Liquidtight, Non-metallic UF coble fitting T&B 2827.
3. t2/2 with ground UF Cable.
4. 1/2" non-metallic bushing.
5. 1/2" Liquidtight flexible metal conduit, extend t2" below finished grade, Use insulated throat connectors and install non-metallic bushing on buried end (BRIDGEPORT 321-B).
6. Unistrut 1-5/8" x t3/16" pre-galvonized steel, B-LINE P/N P4000.
7. 6" Unistrut straps B-LINE P/N P1124.
8. Existing heater terminal junction box.
9. Install UF connector in existing threaded hole. use a 1/2" bushing on connector thread as it exits the outer manhole wall. If the threaded fitting is not accessible, drill 7/8" hole and use UF connector with lock ring and insulated bushing on outer wall.
10. Existing Heat Tape (NELSON LT10-JT) run in sewer line corrier pipe (Pipe not shown). See Note 13.
11. Probe holder and flonge/riser (Existing).
12. Heat Tape Splice kit NELSON LT-SS.
13. Provide a t0' extension to the existing heat tape (See Note t0). Wrap heat tape around sewer line riser, probe riser tube and flange and probe holder. Secure heat tape using 2" weatherproof aluminum tape (3M NASHUA 330, GRAINGER 6JD44). Do not apply tape to probe holder cover but wrap with heat tape.
14. Heat Tape End Kit NELSON LT-SE.



See 2 — for Tank Heater power supply detail

3 — **PROBE HEAT TAPE EXTENSION**
NO SCALE

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NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — William W. McDonald — EE 7879

CRW ENGINEERING GROUP, LLC
3000 ARCTIC BLVD., SUITE 203
ANCHORAGE, ALASKA 99503
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FAX (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
PUNCH LIST
GENERAL NOTES

REVISION	BY	DATE
1 AS-BUILTS	WMM	11/08

Project No. 9966
Date AUGUST 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 1
SHEET 1 OF 15

File: BATHROOM BASE.dwg

RESIDENCE # 2 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Use a 20/1 circuit breaker for SP,
   1.b. Use a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape,
   1.c. Identify the circuit used for the water heater (if installed) and
   1.d. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape", or "Water Heater"

2. Disconnect, remove Status Panel (SP). and re-install in location shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel.
   2.b. Re-route probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4) and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.

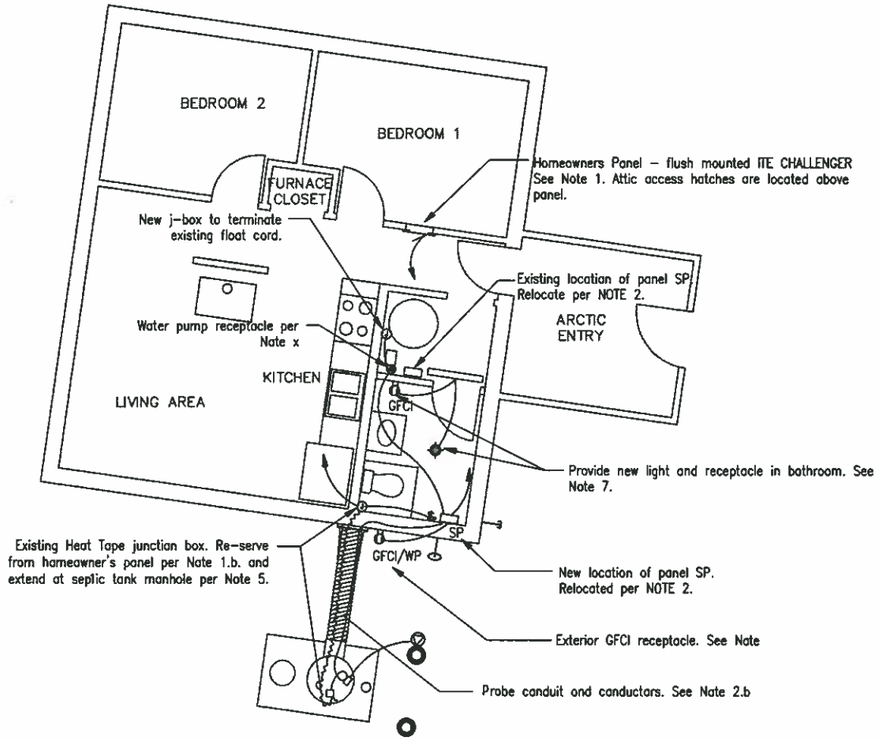
6. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".

7. Provide new light fixture in bathroom. Serve from existing switched circuit for light in corridor leading to bathroom.

8. Provide GFCI receptacle adjacent to sink in bathroom.

0 1 2
SCALE IN FEET

N



1/– **BUILDING 2 - DAVID HOPE**
SCALE AS SHOWN

This home was not inspected. Review completion checklist (EP 1) and correct as needed..

⚠ Homeowner refused access and stated she did not want the improvements.

1/– **BUILDING 4 - BARBARA SOLARI**
AS SHOWN

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11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA
49 TH
William M McDonald
CE 7879
REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3000 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
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VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
DAVID HOPE – BUILDING 2
BARBARA SOLARI – BUILDING 4

REVISION	BY	DATE
⚠1 AS-BUILTS	WMM	11/08

Project No. 9966
Date AUG 2008
Designed WMM
Drawn WMM
Approved WMM

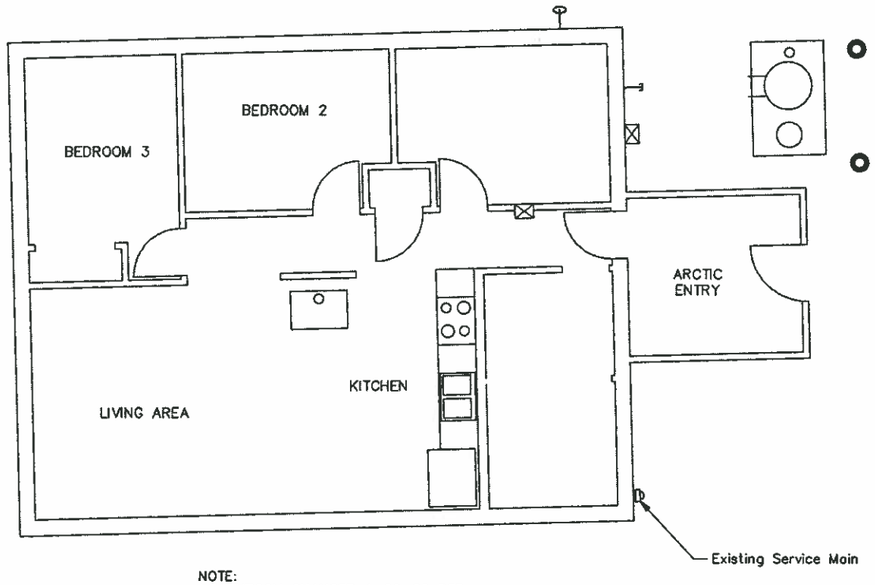
Sheet No. EP 2
SHEET 2 OF 15

File: BATHROOM BASE.dwg

RESIDENCE # 5 NOTES

1. Provide Bathroom installation per Detail 2 Sheet E2 of the original design in accordance with the Specifications an Pt and with the modificatians listed below.
2. Locate the Status Panel and Panel A as shown on this sheet.
3. HEAT TAPE Item 4 Detail 2, E2. Do not provide dual heat tape runs shown but terminate the single run of heat tape at the septic tank manhole. Include a t0 foot length of heat tape in the septic manhole and wrap the probe holder junction box, flange and riser.
4. Provide Septic Tank Heat power supply point as shown on Detail 2, EP 1.

⚠ Homeowner refused access and stated she did not want the Improvements.



NOTE:
t.BATHROOM CHANGED 4-20-06 PER PAUL WILLIAMS SR.
2. REPLUMBING IN FLOOR CHASE REQUIRED TO AVOID GLUE LAM.
3. CONNECT KITCHEN SINK.
4. NO SHOWER.

1 — **BUILDING 5 - PAUL WILLIAMS SR.**
AS SHOWN

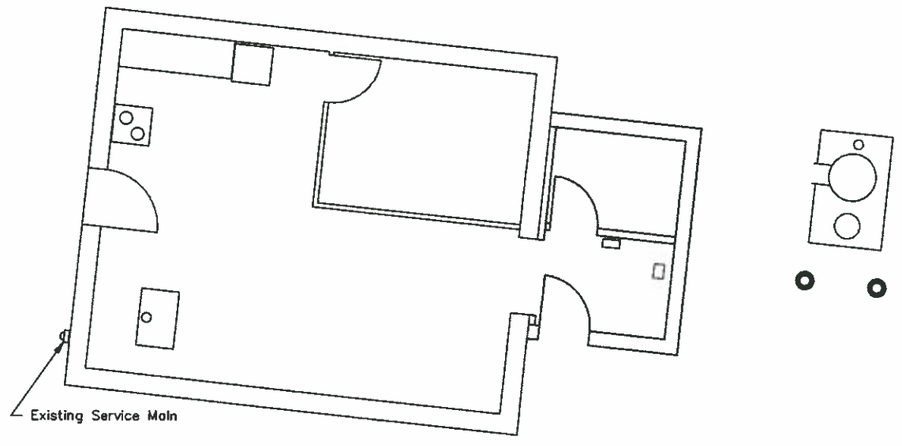
0 1 2
SCALE IN FEET

N

RESIDENCE #7 NOTES

1. Provide Bathroom installation per Detail 1 Sheet E2 of the original design in accordance with the Specifications an E1 and with the modificatians listed below.
2. Locate the Status Panel and Panel A as shown on this sheet.
3. HEAT TAPE Item 4 Detail 2, E2. Do not provide dual heat tape runs shown but terminate the single run of heat tape at the septic tank manhole. Include a 10 foot length of heat tape in the septic manhole and wrap the probe holder junction box, flange and riser.
4. Provide 3ea 20/t circuit breakers serving the 2 Kitchen counter receptacles and the Range/hood/refrigerator receptacles as shown. Locate GFCI kitchen counter receptacles 6" above countertop, and refrigerator/range receptacles at 12"AFF and provide a pigtail at 72" for the range hood.

⚠ Homeowner refused access and stated she did not want the Improvements.



2 — **BUILDING 7 - WILMA PITKA**
AS SHOWN

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11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA
REGISTERED PROFESSIONAL ENGINEER
William W McDonald
CE 7879

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
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VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
PAUL WILLIAMS SR. - BUILDING 5
WILMA PITKA - BUILDING 7

REVISION	BY	DATE
⚠1 AS-BUILTS	WM	11/08

Project No. 9966
Date AUG 2008
Designed wmm
Drawn wmm
Approved wmm

Sheet No. EP 3
SHEET 3 OF 15

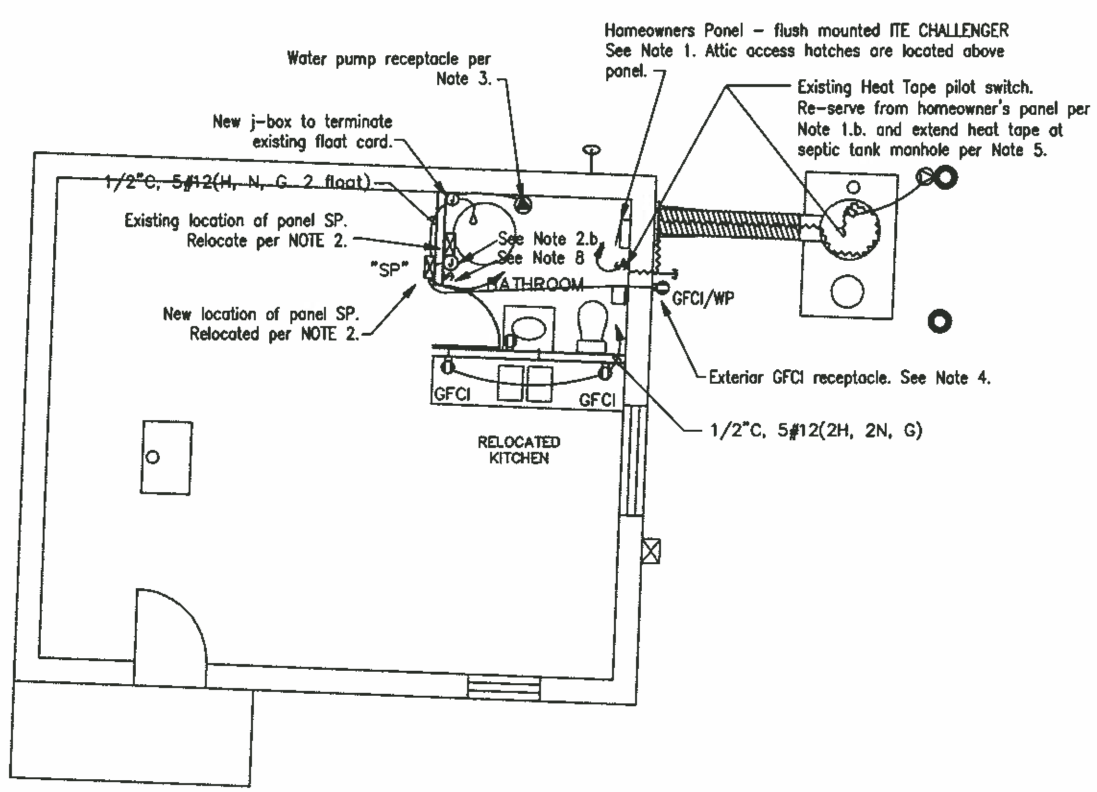
File: BATHROOM BASE.dwg

SCALE IN FEET 0 1 2

N

RESIDENCE #9 NOTES

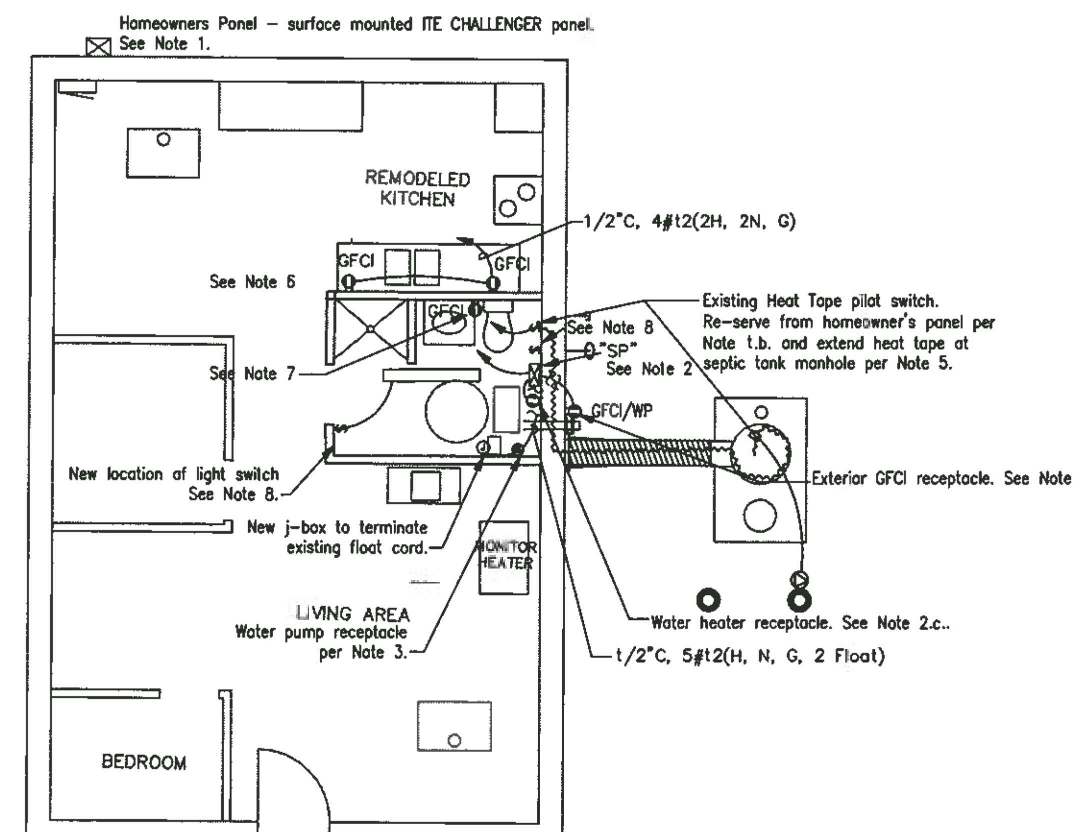
1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP.
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape.
   1.c. Provide 2 20/1 circuits for the relocated kitchen (use existing and add as needed).
   1.d. Identify the circuit used for the water heater (if installed) and
   1.e. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape".
2. Disconnect, remove Status Panel (SP), and re-install in location shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4) and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.
5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.
6. Provide 2 GFCI receptacles. One on either side of the sink, 6" above the counter top.
7. Provide GFCI receptacle adjacent to sink in bathroom. Serve on existing bathroom circuit
8. Move light switch to location by door.
9. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".



1 BUILDING 9 - JAMES HOPE
AS SHOWN

RESIDENCE #11 NOTES

1. Provide dedicated circuits in homeowner's panel for Kitchen, SP and sewer line heat tape/water heater.
   1.a. Provide a 20/1 circuit breaker for SP.
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape.
   1.c. Provide 2 20/1 circuit breakers for the Kitchen
   1.d. Use existing Bathroom circuit for new GFCI receptacle at sink, and
   1.e. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape", "Kitchen".
2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.
5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.
6. Provide 2 GFCI receptacles. One on either side of the sink, 6" above the counter top.
7. Provide GFCI receptacle adjacent to sink in bathroom. Serve on existing bathroom circuit.
8. Move light switch to location by door.
9. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".



2 BUILDING 11 - ELSIE PITKA
AS SHOWN

RECORD DRAWING CERTIFICATE
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NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA · 49th · William M McDonald · EE 7878 · REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC

VILLAGE OF BEAVER SANITATION IMPROVEMENTS

BATHROOM UPGRADES ELECTRICAL

JAMES HOPE – BUILDING 9
ELSIE PITKA – BUILDING 11

REVISION	BY	DATE
AS-BUILTS	WM	11/08

Project No. 9966
Date MAY 2006
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 4
SHEET 4 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #12 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP.
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape,
   1.c. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape"

2. Disconnect, remove Status Panel (SP). and re-install in location shown (approx. 6" to the left).
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Extend conduit for probe conductors to SP and to the probe holder in the septic tank manhole. Terminate per control drawing. See Note B.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

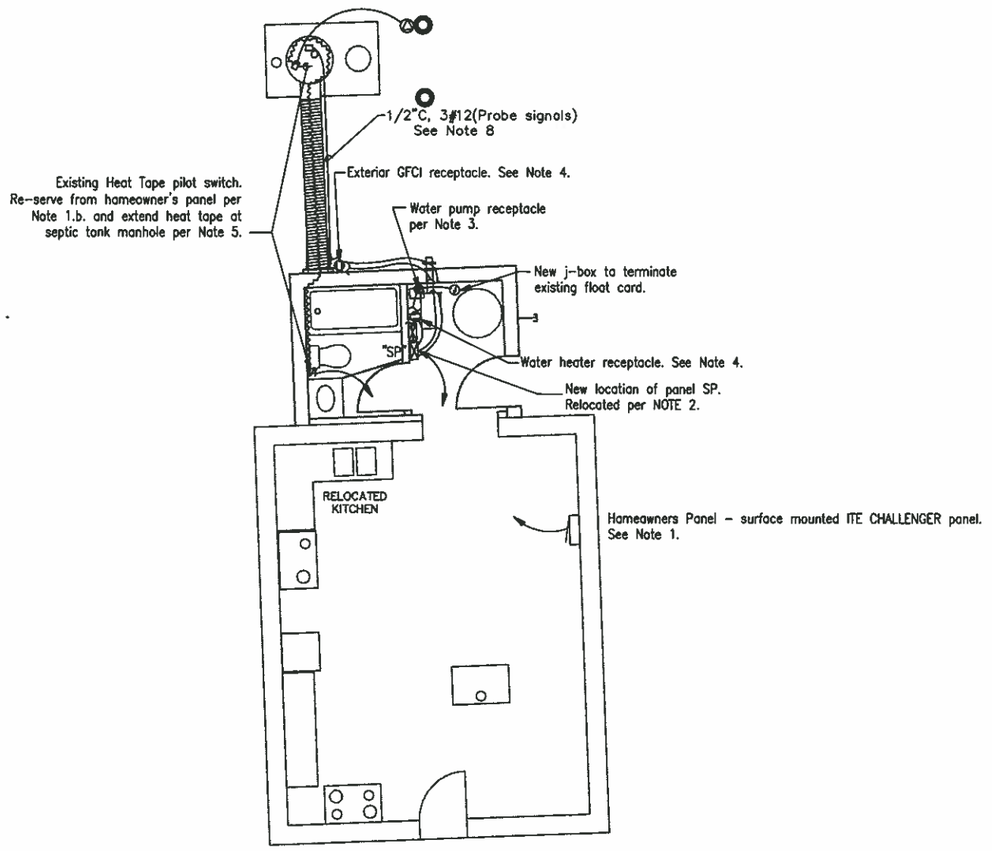
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.

6. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".

7. Provide GFCI receptacle adjacent to sink in bathroom. Serve on existing bathroom circuit

8. Provide control connections for the level probes. conduit is partially installed. Complete the installation and terminate conductors per the control panel drawing (See Sheet SP-1).



1 — **BUILDING 12 - MARY SAM (PAUL JR.)**
AS SHOWN

0 1 2
SCALE IN FEET

N

RESIDENCE #13 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape,
   1.c. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape".

2. Disconnect, Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

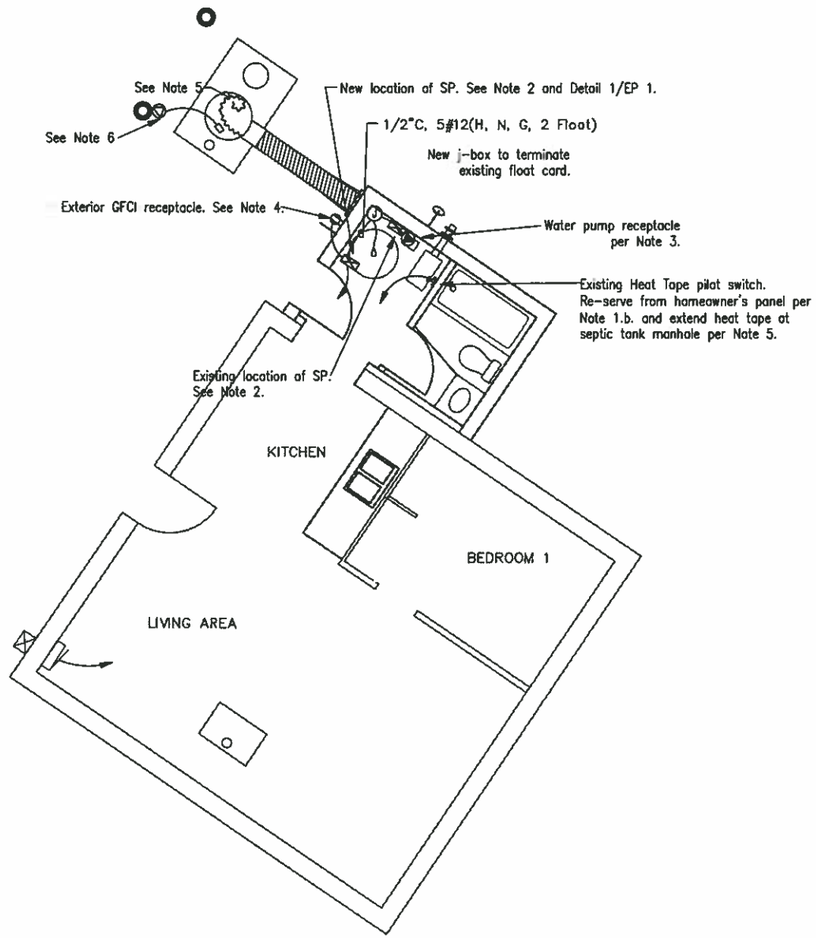
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.

6.

7. Provide tank heater power supply extension. See Detail 2/EP1.

8. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".



2 — **BUILDING 13 - GEORGE YATLIN**
AS SHOWN

RECORD DRAWING CERTIFICATE
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NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA — 49 IM — REGISTERED PROFESSIONAL ENGINEER — William M McDonald — CE 7879

CRW ENGINEERING GROUP, LLC
3000 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 561-2220
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS

BATHROOM UPGRADES
ELECTRICAL

MARY SAM (PAUL JR.) – BUILDING 12
GEORGE YATLIN – BUILDING 13

REVISION	BY	DATE
1 AS-BUILTS	WMM	11/08

Project No. 9966
Date AUG 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 5
SHEET 5 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #15 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape,
   1.c. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape".
2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.
5. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.
6. Extend tank heater power source to inlet on riser. See Detail 2/EP 1.
7. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".

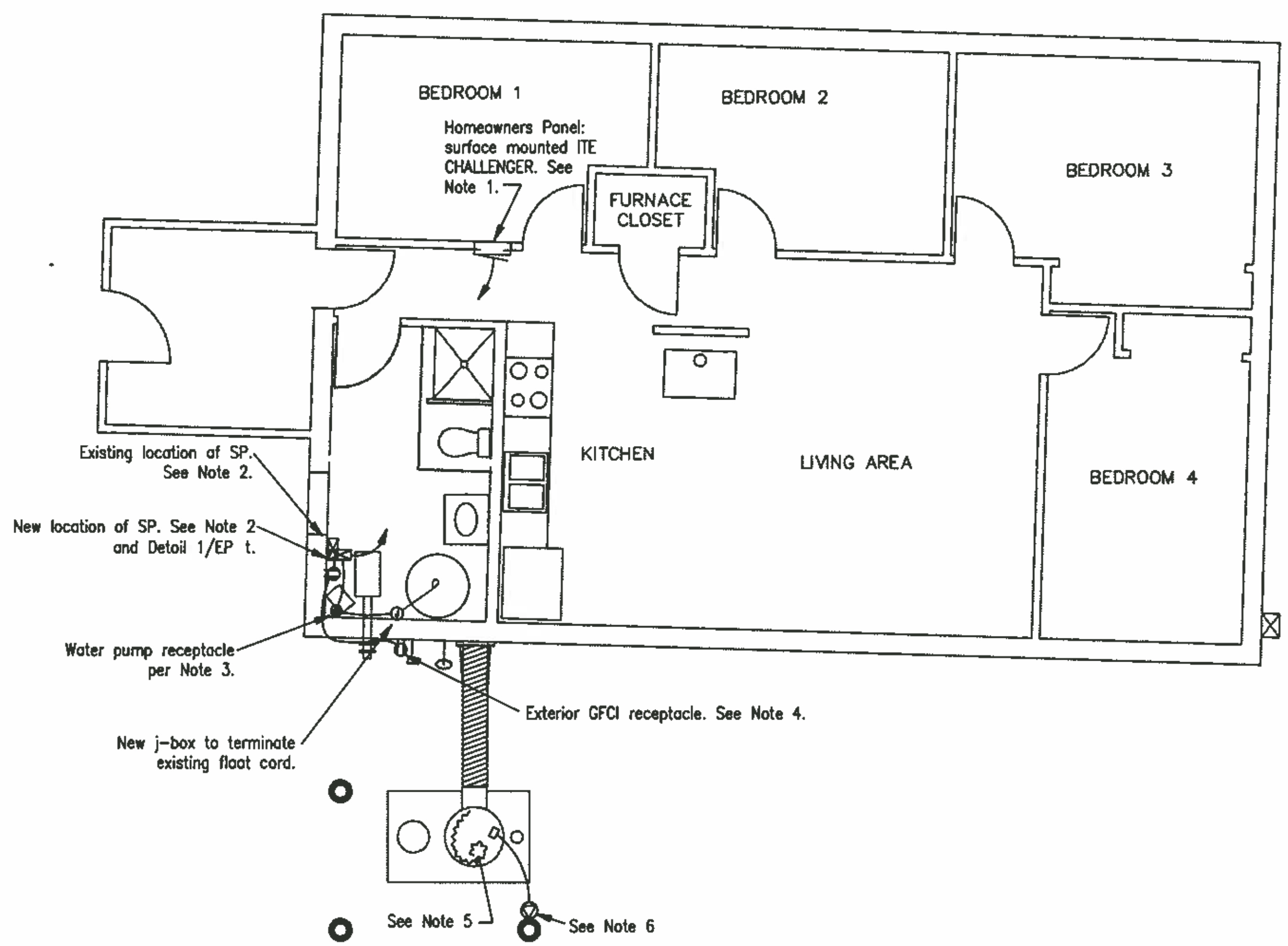
0 1 2
SCALE IN FEET

N

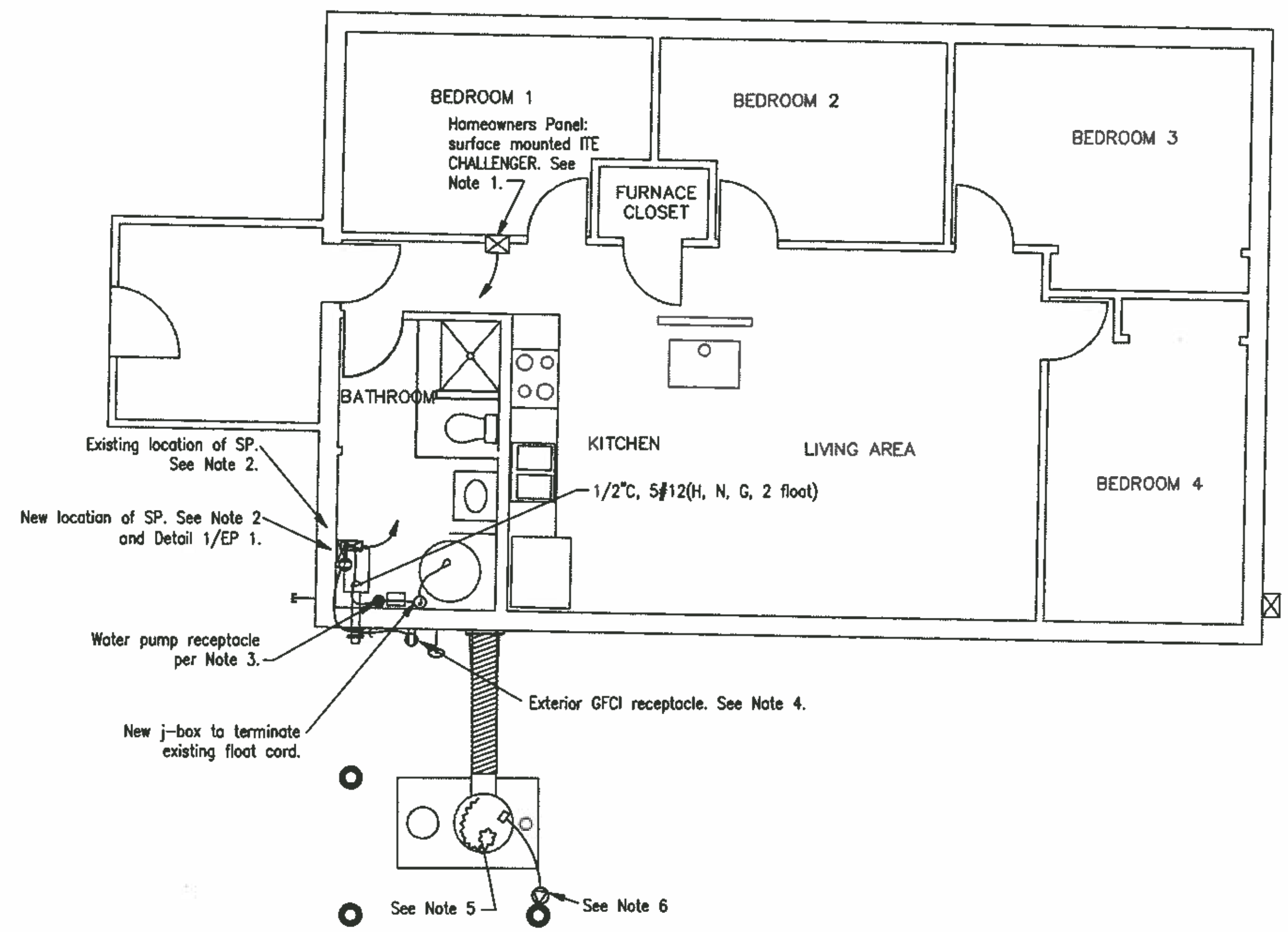
RESIDENCE #17 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape,
   1.c. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape".
2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.
5. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.
6.
7. Extend tank heater power source to inlet on riser. See Detail 2/EP 1.
8. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".

New location of SP. See Note 2 and Detail 1/EP 1.



1 BUILDING 15 - SELENA PETRUSKA
AS SHOWN



2 BUILDING 17 - VIVIAN JUMEABY
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.
NAME 11/11/08 DATE

VILLAGE SAFE WATER

STATE OF ALASKA 49th William M. McDonald EE 7879 REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
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VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
SELENA PETRUSKA - BUILDING 15
VIVIAN JUMEABY - BUILDING 17

REVISION	BY	DATE
1 AS-BUILTS	WM	11/08

Project No. 9966
Date AUGUST 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 6
SHEET 6 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #20 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape,
   1.c. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape".

2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

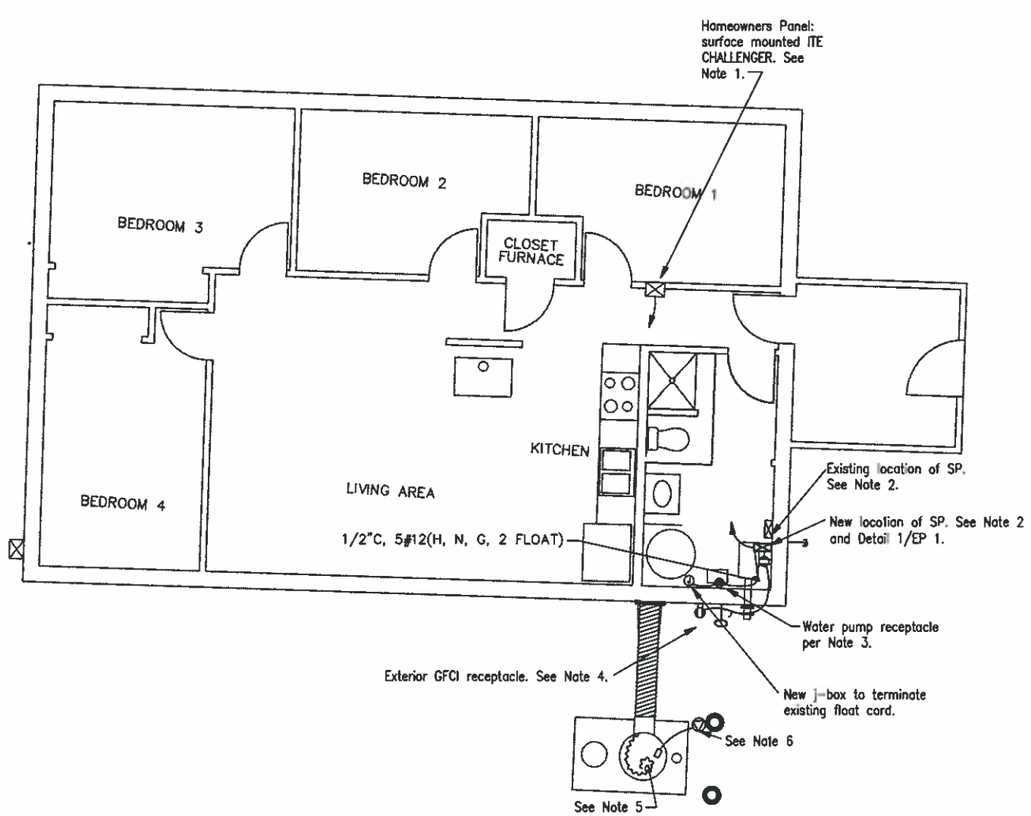
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.

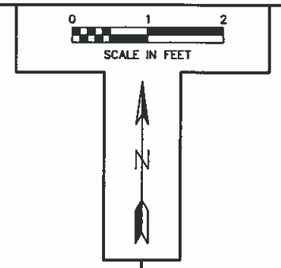
6.

7. Extend tonk heater power source to inlet on riser. See Detail 2/EP 1.

8. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".



1/— **BUILDING 20 - ANNA JOSEPH**
AS SHOWN



RESIDENCE #22 NOTES

1. Provide dedicated circuits in hameowner's panel for Kitchen, SP and sewer line heat tape/water heater.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Verify existing Bathroom GFCI receptacle at sink is used for sewer line heat tape, and
   1.c. Update new circuits on the panel schedule with the following description: "Water/Sewer Panel".

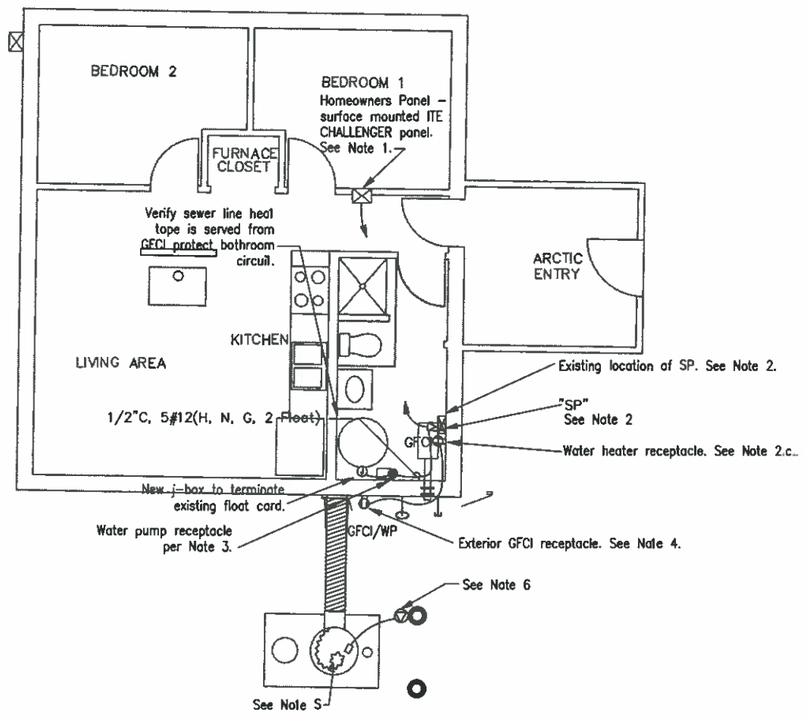
2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Hameowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.

6. Extend septic tank heater power connection to inlet mounted on the vent riser. See Detail 2/EP 1.



2/— **BUILDING 22 - HANNAH ADAMS (BABES)**
AS SHOWN

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NAME
11/11/08
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VILLAGE SAFE WATER

STATE OF ALASKA 49 RI — William H McDonald — REGISTERED PROFESSIONAL ENGINEER — EX 7879

CRW ENGINEERING GROUP, LLC
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VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
ANNA JOSEPH - BUILDING 20
HANNAH ADAMS (BABES) - BUILDING 22

REVISION	BY	DATE
1 AS-BUILTS	WAM	11/08

Project No. 9966
Date AUGUST 2008
Designed WAM
Drawn WAM
Approved WAM

Sheet No. EP 7
SHEET 7 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #23 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.1. Provide a 20/1 circuit breaker for SP.
   1.2. Provide a GFCI 20/1 or 15/1 circuit breaker for the Bathroom serving the sink receptacle, sewer line heat tape, and water heater.
   1.3. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Bathroom"

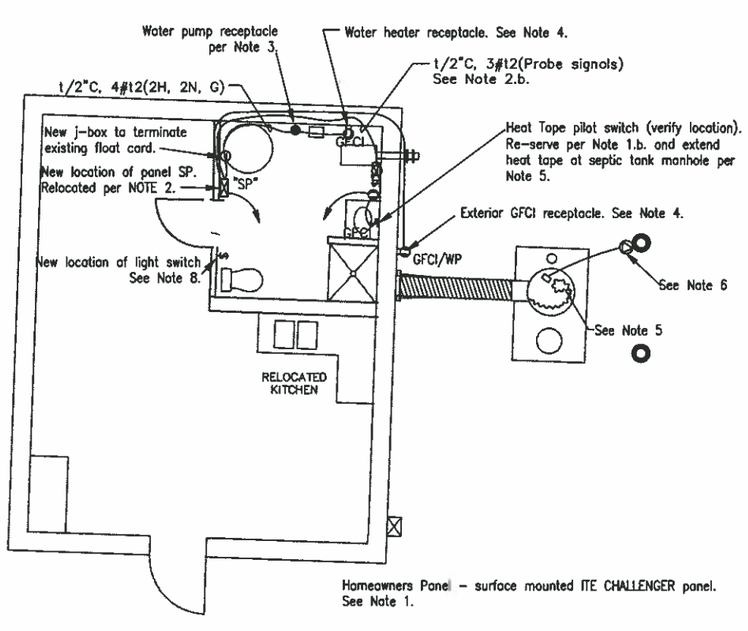
2. Disconnect, remove Status Panel (SP). and re-install in location shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Complete partial installation of conduit for probe conductors between SP and the probe holder in the septic tank manhole, terminate per control drawing.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
3.
4. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

5. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

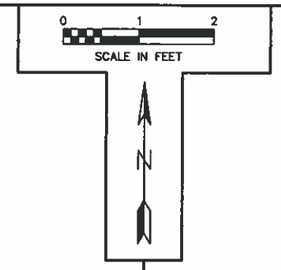
6. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.

7. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".

8. Provide GFCI receptacle adjacent to sink in bathroom.



1 — **BUILDING 23 - ALVIN WINER**
AS SHOWN



RESIDENCE #24 NOTES

1. Provide dedicated circuits in homeowner's panel for SP.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Update new circuits on the panel schedule with the following description: "Water/Sewer Panel".

2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP (See also Note 8).
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

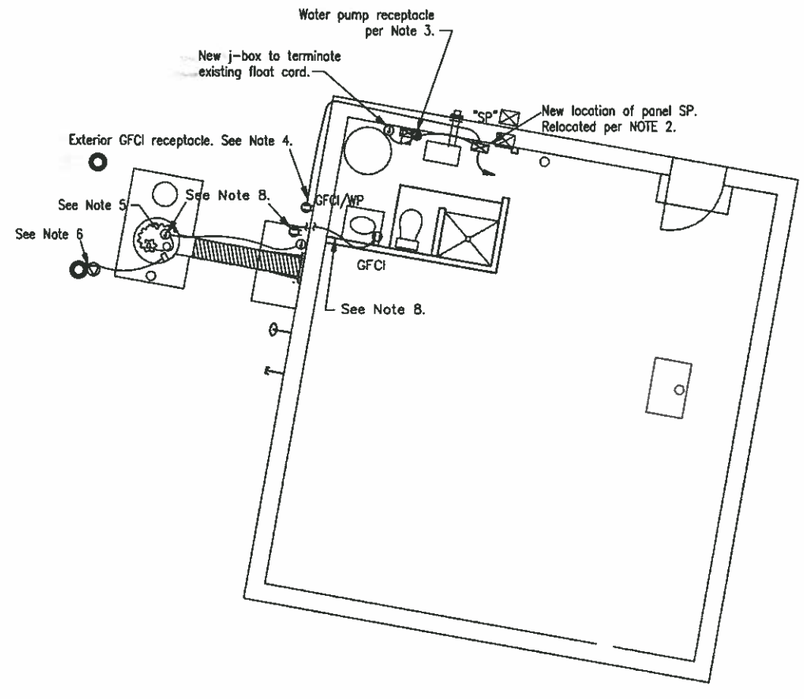
4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.

6. Provide tank heater power supply extension. See Detail 2/EP1.

7. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE". In Bathroom, provide PVC sleeve for heat tape between the floor and power point j-box.

8. Disconnect receptacle located in the septic tank manhole, and disconnect the circuit serving it. The control conductors cannot share the same conduit with power due to their power class rating. Tie back unused conductors and label as spare.



2 — **BUILDING 24 - WILLIAM HENRY**
AS SHOWN

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NAME
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VILLAGE SAFE WATER

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — MICHAEL LEDUNEC — 11006 — RE 49

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VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
ALVIN WINER - BUILDING 23
WILLIAM HENRY - BUILDING 24

REVISION	BY	DATE
1 AS-BUILTS	WM	11/08

Project No. 9966
Date MAY- 2006
Designed M.L.
Drawn M.L.
Approved M.L.

Sheet No. EP 8
SHEET 8 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #25 NOTES

1. GFCI Provide dedicated circuits in homeowner's panel for Kitchen, SP and sewer line heat tape/water heater.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape and water heater GFCI receptacle,
   1.c. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape".

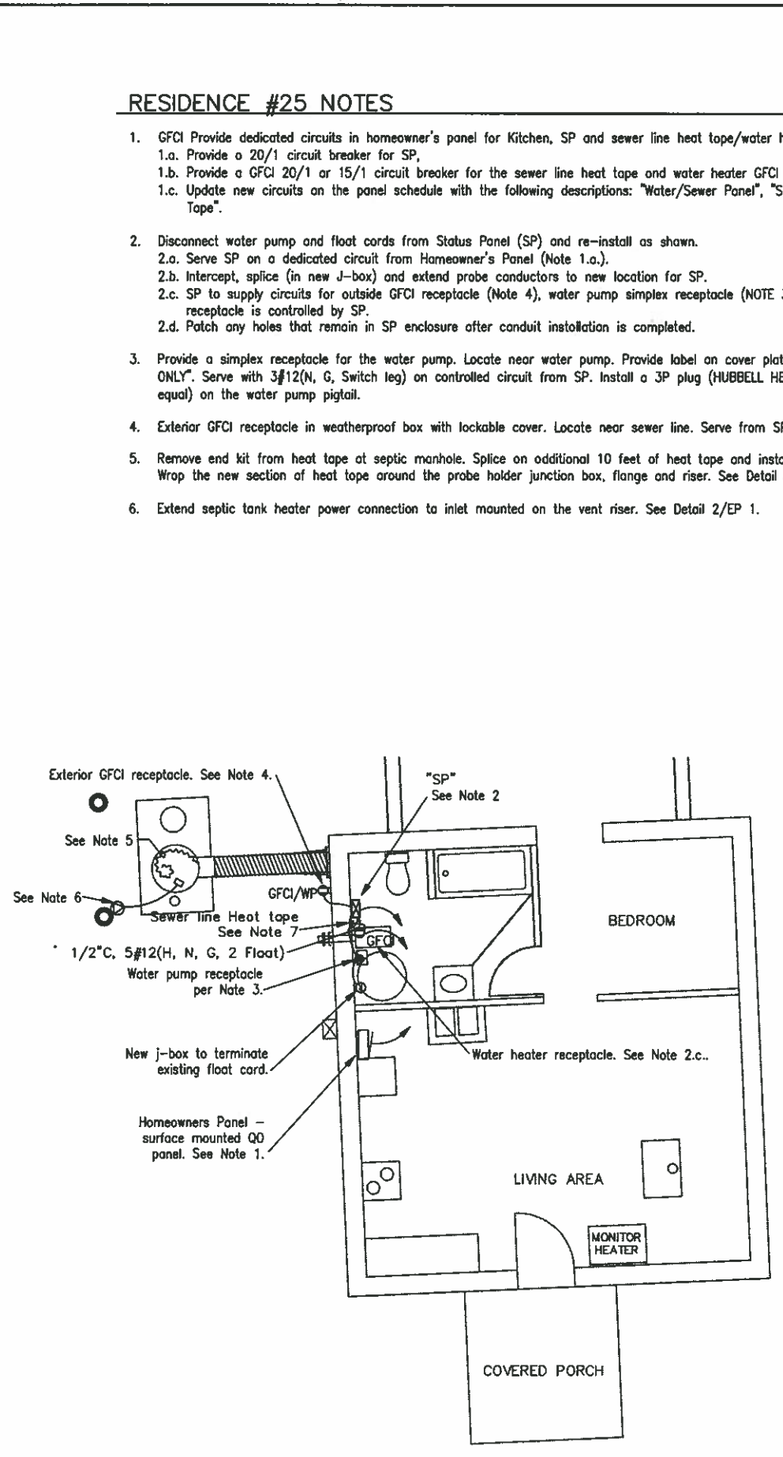
2. Disconnect water pump and float cords from Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 3/EP 1.

6. Extend septic tank heater power connection to inlet mounted on the vent riser. See Detail 2/EP 1.



1/— **BUILDING 25 - NORA BILLY**
AS SHOWN

0 1 2
SCALE IN FEET

N

RESIDENCE #26 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Update new circuits on the panel schedule with the following description: "Water/Sewer Panel".

2. Disconnect, remove Status Panel (SP). and re-install in location shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Extend conduit for probe conductors to new location for SP. Provide conductors per original plans and terminate per control drawing.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.

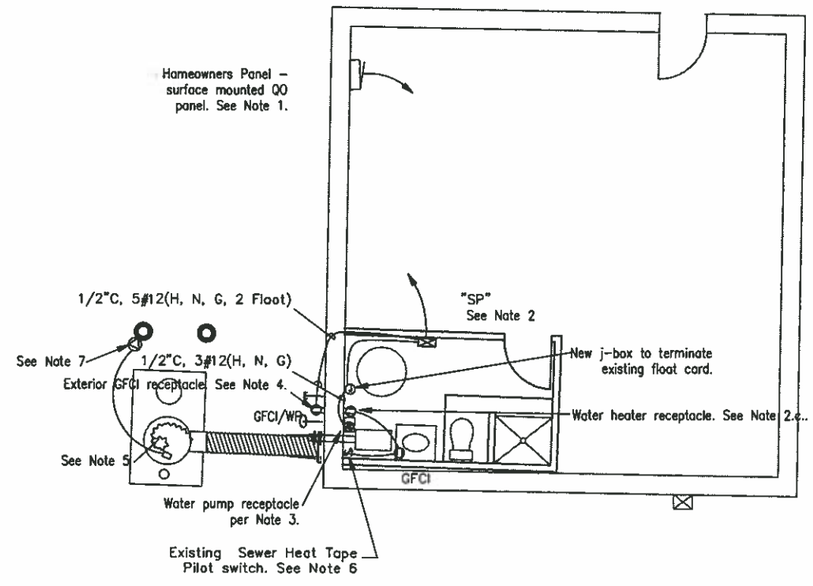
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.

6. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE" serve heat tape circuit from the protected side of the bathroom GFCI receptacle.

7. Extend septic tank heater power connection to inlet mounted on the vent riser. See Detail 2/EP 1.



2/— **BUILDING 26 - ROY HENRY**
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE
NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA
49 TH
WILLIAM MCDONALD
EE 7879
REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3000 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE (907) 562-2252
FAX (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
NORA BILLY - BUILDING 25
ROY HENRY - BUILDING 26

REVISION	BY	DATE
1 AS-BUILTS	WMM	11/08

Project No. 9966
Date AUGUST 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 9
SHEET 9 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #27 NOTES

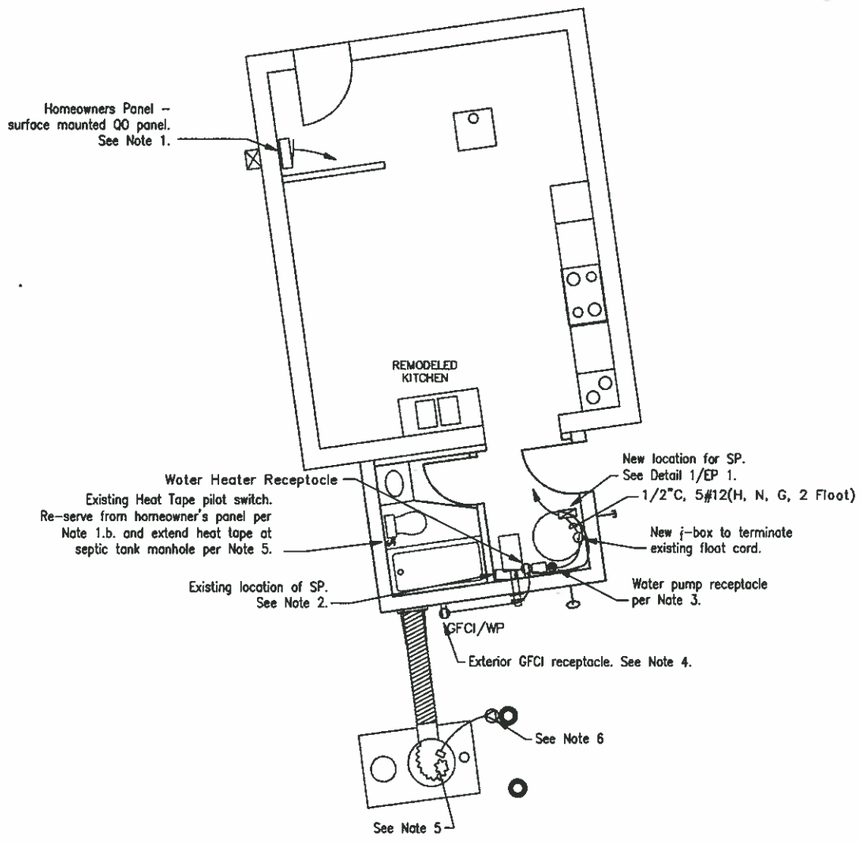
1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Update new circuits on the panel schedule with the following description: "Water/Sewer Panel".

2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch ony holes that remain in SP enclosure after conduit installation is completed.
3.
4. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

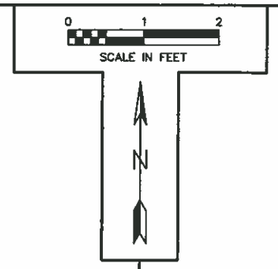
5. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

6. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.
7.
8. Provide tank heater power supply extension. See Detail 2/EP1.

9. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE". In Bathroom, provide PVC sleeve for heat tape between the floor and power point j-box.



1/— **BUILDING 27 - HEATHER JOSEPH**
AS SHOWN



RESIDENCE #28 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP,
   1.b. Update new circuits on the panel schedule with the following description: "Water/Sewer Panel".

2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch ony holes that remain in SP enclosure after conduit installation is completed.

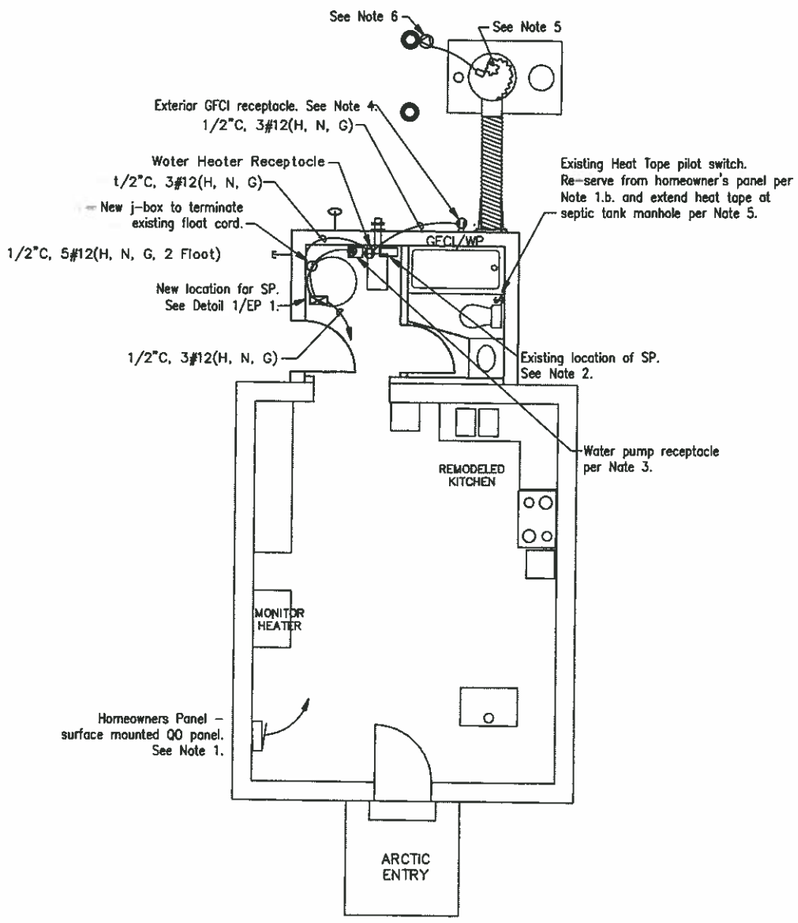
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.

6. Provide tank heater power supply extension. See Detail 2/EP1.

7. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE". In Bathroom, provide PVC sleeve for heat tape between the floor and power point j-box.



2/— **BUILDING 28 - SAM JOSEPH**
AS SHOWN

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NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA
49TH
William McDonald
EE 7879
REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3000 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
HEATHER JOSEPH – BUILDING 27
SAM JOSEPH – BUILDING 28

REVISION	BY	DATE
1 AS-BUILTS	WMM	11/08

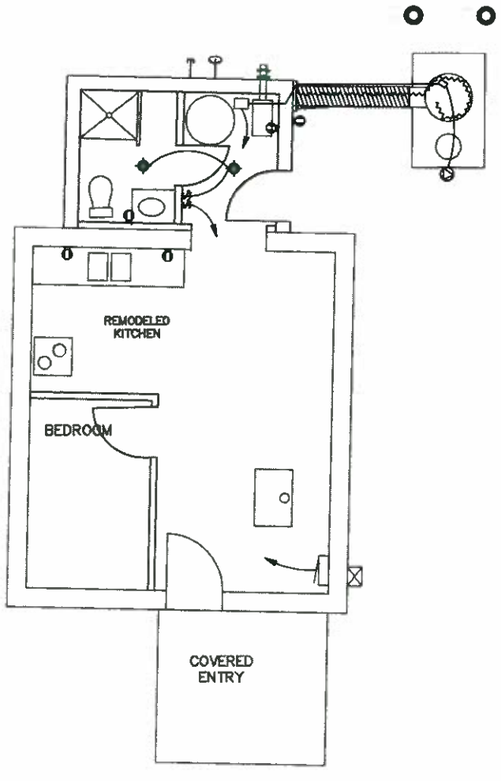
Project No. 9966
Date SEP 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 10
SHEET 10 OF 15

File: BATHROOM BASE.dwg

This home was not inspected. Review completion checklist (EP 1) and correct as needed..

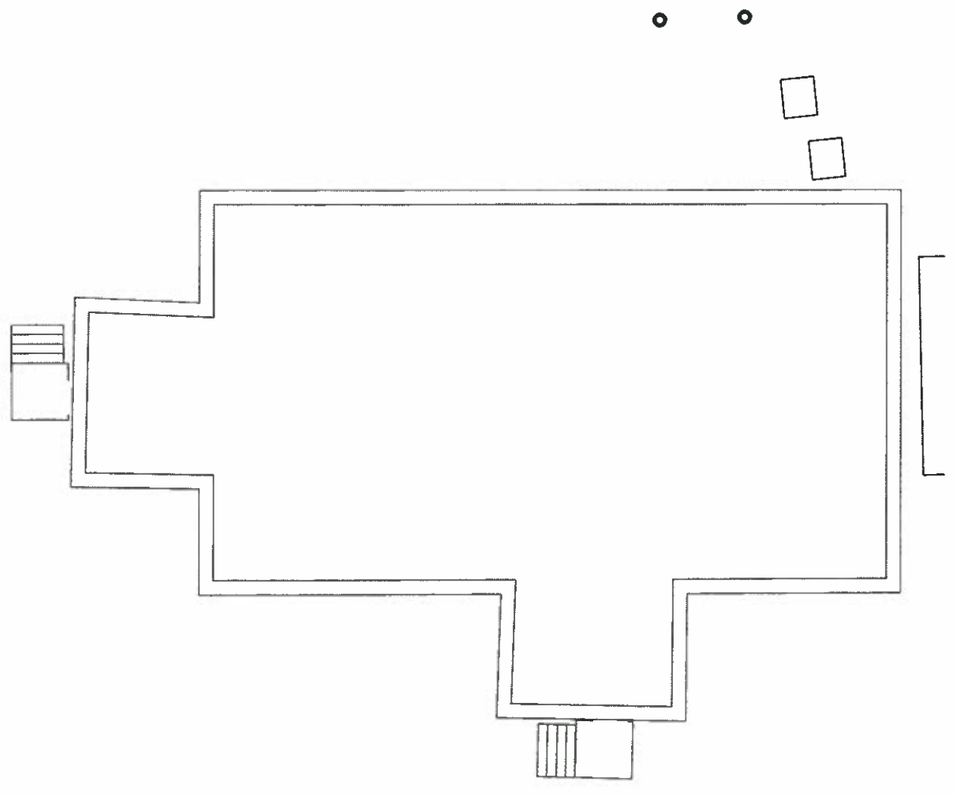
⚠ Improvements installed as generally shown in Detail 2 & 3 of EP1



1 — **BUILDING 32 - JENNIE PITKA**
AS SHOWN

This home was not inspected. Review completion checklist (EP 1) and correct as needed..

⚠ Homeowner refused access and stated she did not want the improvements.



2 — **BUILDING 37 - CHARLEEN FISHER**
AS SHOWN

0 1 2
SCALE IN FEET

N

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NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA — 49 RM — William M McDonald — CE 7679 — REGISTERED PROFESSIONAL ENGINEER

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3000 ARCTIC BLVD. SUITE 203
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VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
JENNIE PITKA - BUILDING 32
CHARLEEN FISHER - BUILDING 37

REVISION	BY	DATE
⚠1 AS-BUILTS	WMM	11/08

Project No. 9966
Date SEP 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 11
SHEET 11 OF 15

File: BATHROOM BASE.dwg

0 1 2
SCALE IN FEET

N

RESIDENCE #51 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP.
   1.b. Update new circuits on the panel schedule with the following description: "Water/Sewer Panel".

2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

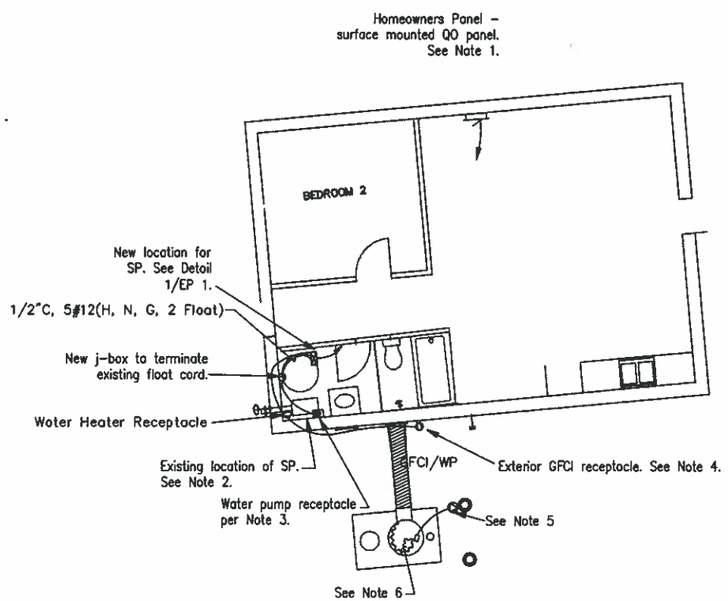
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.

6. Provide tank heater power supply extension. See Detail 2/EP1.

7. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE". In Bathroom, provide PVC sleeve for heat tape between the floor and power point j-box.



1/— **BUILDING 51 - YATLIN**
AS SHOWN

RESIDENCE #58 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP.
   1.b. Provide a 20/3 GFCI circuit breaker for the bathroom circuit. Use this circuit for the sewer line heat tape.
   1.c. Update new circuits on the panel schedule with the following description: "Water/Sewer Panel".

2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Run probe conductors from the septic tank manhole to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water heater receptacle and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

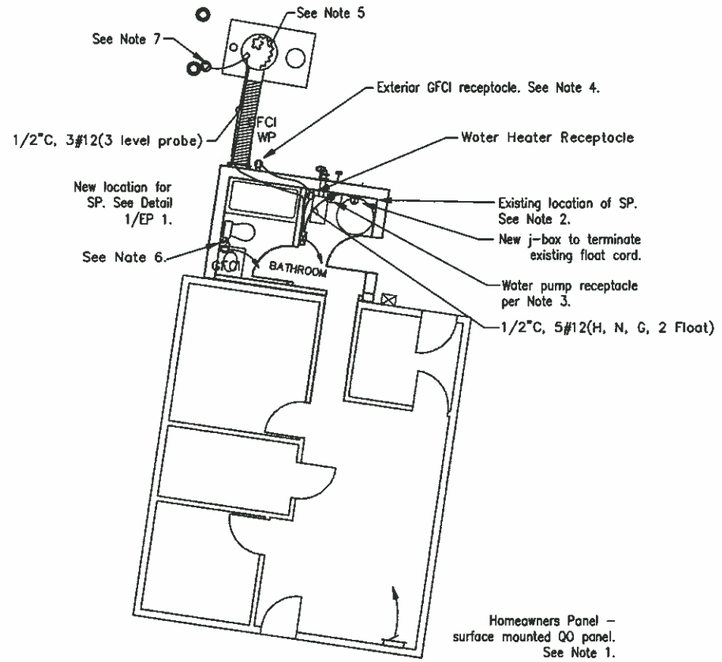
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

5. Remove end kit from heat tape at septic manhole. Splice on additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.

6. Serve sewer line heat tape from bathroom GFCI receptacle. Install protective sleeve on any portion of the exposed heat tape. Provide label "SEWER LINE HEAT TAPE" on the existing pilot switch.

7. Provide tank heater power supply extension. See Detail 2/EP1.



2/— **BUILDING 58 - THOMAS ADAMS**
AS SHOWN

RECORD DRAWING CERTIFICATE
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE
NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA 49 ZH EE 7879 William W McDonald REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3000 ARCTIC BLVD., SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 561-2220
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
YATLIN - BUILDING 51
THOMAS ADAMS - BUILDING 58

REVISION	BY	DATE
1 AS-BUILTS	WMM	11/08

Project No. 9966
Date SEP 2008
Designed WMM
Drawn WMM
Approved WMM

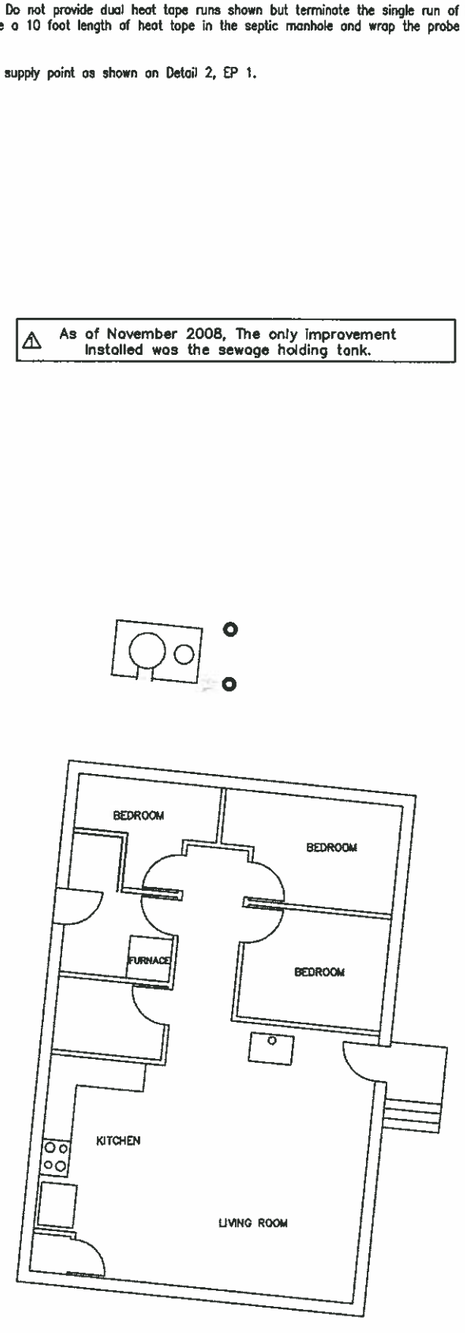
Sheet No. EP 12
SHEET 12 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #66 NOTES

1. Provide Bathroom installation per Detail 2 Sheet E2 of the original design in accordance with the Specifications on P1 and with the modifications listed below.
2. Locate the Status Panel and Panel A as shown on this sheet.
3. HEAT TAPE Item 4 Detail 2, E2. Do not provide dual heat tape runs shown but terminate the single run of heat tape at the septic tank manhole. Include a 10 foot length of heat tape in the septic manhole and wrap the probe holder junction box, flange and riser.
4. Provide Septic Tank Heat power supply point as shown on Detail 2, EP 1.

⚠ As of November 2008, The only improvement Installed was the sewage holding tank.



1 — **BUILDING 66 - MICHAEL WILLIAMS**
AS SHOWN

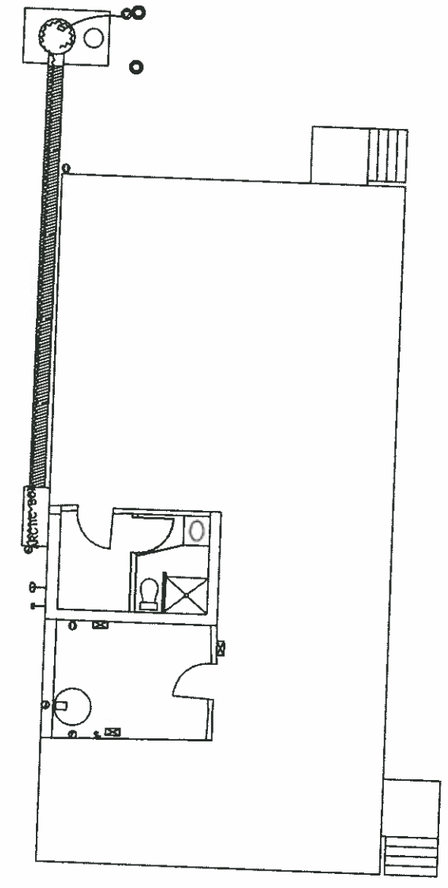
0 1 2
SCALE IN FEET

N

RESIDENCE #67 NOTES

This installation was performed by the owner. The current water tank does not have any floats and the owner's pressure pump is 1/2Hp – it cannot be run on SP's water pump receptacle. At this time the owner is requesting a new (vertical) water tank. If the septic and water override is desired by the owner using his own pump, he must provide a motorstarter, controlled by SP's water pump receptacle circuit.

In any event the Status Panel must be relocated, probes connected and external receptacle installed. SP shoul be rune aon a dedicated circuit.



2 — **BUILDING 67 - BIRDIE BILLY**
AS SHOWN

RECORD DRAWING CERTIFICATE
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NAME 11/11/08 DATE

VILLAGE SAFE WATER

STATE OF ALASKA — REGISTERED PROFESSIONAL ENGINEER — William M McDonald — CE 7879

CRW ENGINEERING GROUP, LLC
3600 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
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FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
MICHAEL WILLIAMS - BUILDING 66
BIRDIE BILLY - BUILDING 67

REVISION	BY	DATE
⚠1 AS-BUILTS	WMM	11/08

Project No. 9966
Date SEP 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 13
SHEET 13 OF 15

File: BATHROOM BASE.dwg

NOTE: Homeowner has expressed a reluctance to allow any more work being done. She has had the housing electrician move some things for her and likes everything right where it is.

RESIDENCE #69 NOTES

1. Verify dedicated circuit in homeowner's panel for SP.
   1.a. Provide a 20/1 circuit breaker for SP.
   1.b. Update new circuit on the panel schedule with the following description: "Water/Sewer Panel".

2. Disconnect, remove Status Panel (SP) and re-install as shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4), water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.
   2.d. Patch any holes that remain in SP enclosure after conduit installation is completed.

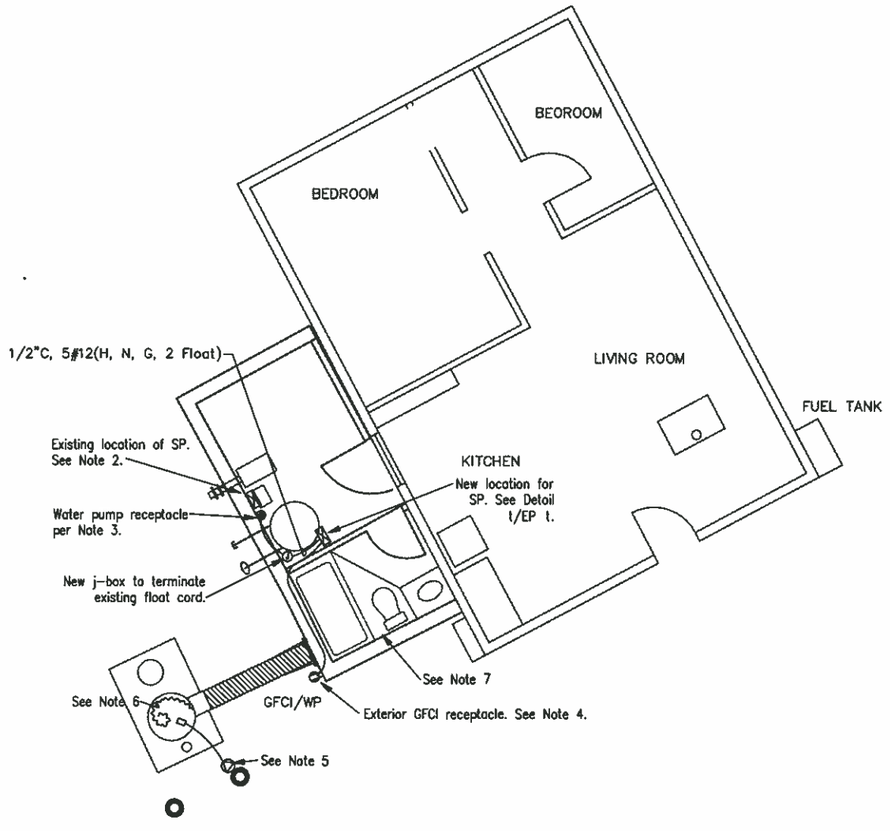
3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

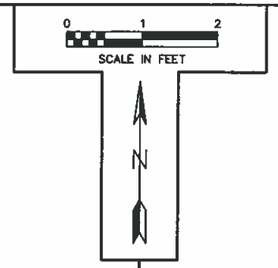
5. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser. See Detail 1/EP1.

6. Provide tank heater power supply extension. See Detail 2/EP1.

7. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE". In Bathroom, provide PVC sleeve for heat tape between the floor and power point j-box.



1/— **BUILDING 69 - DORTHEA ADAMS**
AS SHOWN



RESIDENCE #70 NOTES

1. Provide dedicated circuits in homeowner's panel for SP and sewer line heat tape.
   1.a. Provide a 20/1 circuit breaker for SP.
   1.b. Provide a GFCI 20/1 or 15/1 circuit breaker for the sewer line heat tape.
   1.c. Provide 2 20/1 circuits for the relocated kitchen (use existing and add as needed).
   1.d. Identify the circuit used for the water heater (if installed) and
   1.e. Update new circuits on the panel schedule with the following descriptions: "Water/Sewer Panel", "Sewer Line Heat Tape".

2. Disconnect, remove Status Panel (SP). and re-install in location shown.
   2.a. Serve SP on a dedicated circuit from Homeowner's Panel (Note 1.a.).
   2.b. Intercept, splice (in new J-box) and extend probe conductors to new location for SP.
   2.c. SP to supply circuits for outside GFCI receptacle (Note 4) and water pump simplex receptacle (NOTE 3). Water pump receptacle is controlled by SP.

3. Provide a simplex receptacle for the water pump. Locate near water pump. Provide label on cover plate: "WATER PUMP ONLY". Serve with 3#12(N, G, Switch leg) on controlled circuit from SP. Install a 3P plug (HUBBELL HBL5965VBK or equal) on the water pump pigtail.

4. Exterior GFCI receptacle in weatherproof box with lockable cover. Locate near sewer line. Serve from SP circuit.

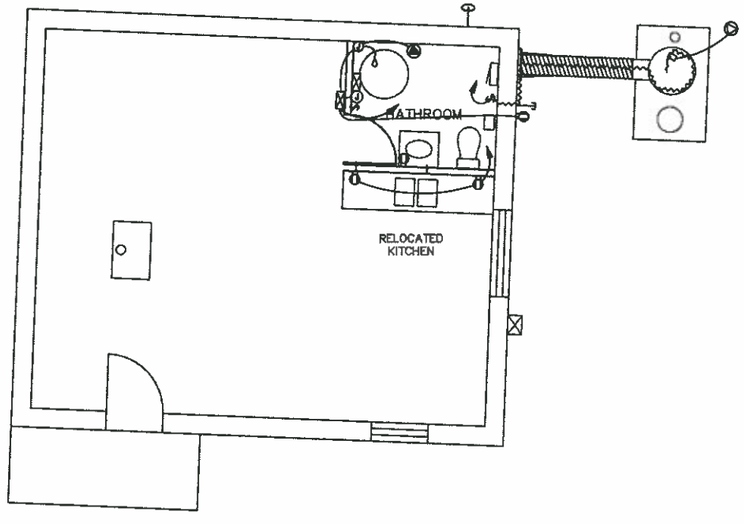
5. Remove end kit from heat tape at septic manhole. Splice an additional 10 feet of heat tape and install new end kit. Wrap the new section of heat tape around the probe holder junction box, flange and riser.

6. Provide 2 GFCI receptacles. One on either side of the sink, 6" above the counter top.

7. Provide GFCI receptacle adjacent to sink in bathroom. Serve on existing bathroom circuit

8. Move light switch to location by door.

9. Provide Placard at Heat Tape pilot switch: "SEWER LINE HEAT TAPE".



2/— **BUILDING 70 - ARTHUR HENRY**
AS SHOWN

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NAME
11/11/08
DATE

VILLAGE SAFE WATER

STATE OF ALASKA 49 TH
William M McDonald CE 7879
REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 203
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-2732
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
DORETHEA ADAMS - BUILDING 69
ARTHUR HENRY - BUILDING 70

REVISION	BY	DATE
1 AS-BUILTS	WMM	11/08

Project No. 9966
Date SEP 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 14
SHEET 14 OF 15

File: BATHROOM BASE.dwg

RESIDENCE #71 NOTES

1. Provide Bathroom installation per Detail 2 Sheet E2 of the originol design in accordance with the Specifications on P1 and with the modifications listed below.
2. Locate the Status Panel and Panel A as shown on this sheet.
3. HEAT TAPE Item 4 Detail 2, E2. Do not provide dual heat tape runs shown but terminate the single run of heat tape at the septic tank manhole. Include a 10 foot length of heat tape in the septic manhole and wrap the probe holder junction box, flange and riser.
4. Provide Septic Tank Heat power supply point as shown on Detail 2, EP 1.

⚠ Homeowner refused access and stated she did not want the improvements.

0 1 2
SCALE IN FEET

N

1 **BUILDING 71 - ANN FISHER**
AS SHOWN

File: BATHROOM BASE.dwg

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DATE

VILLAGE SAFE WATER

STATE OF ALASKA 49TH
William M McDonald
EE 7879
REGISTERED PROFESSIONAL ENGINEER

CRW ENGINEERING GROUP, LLC
3800 ARCTIC BLVD. SUITE 203
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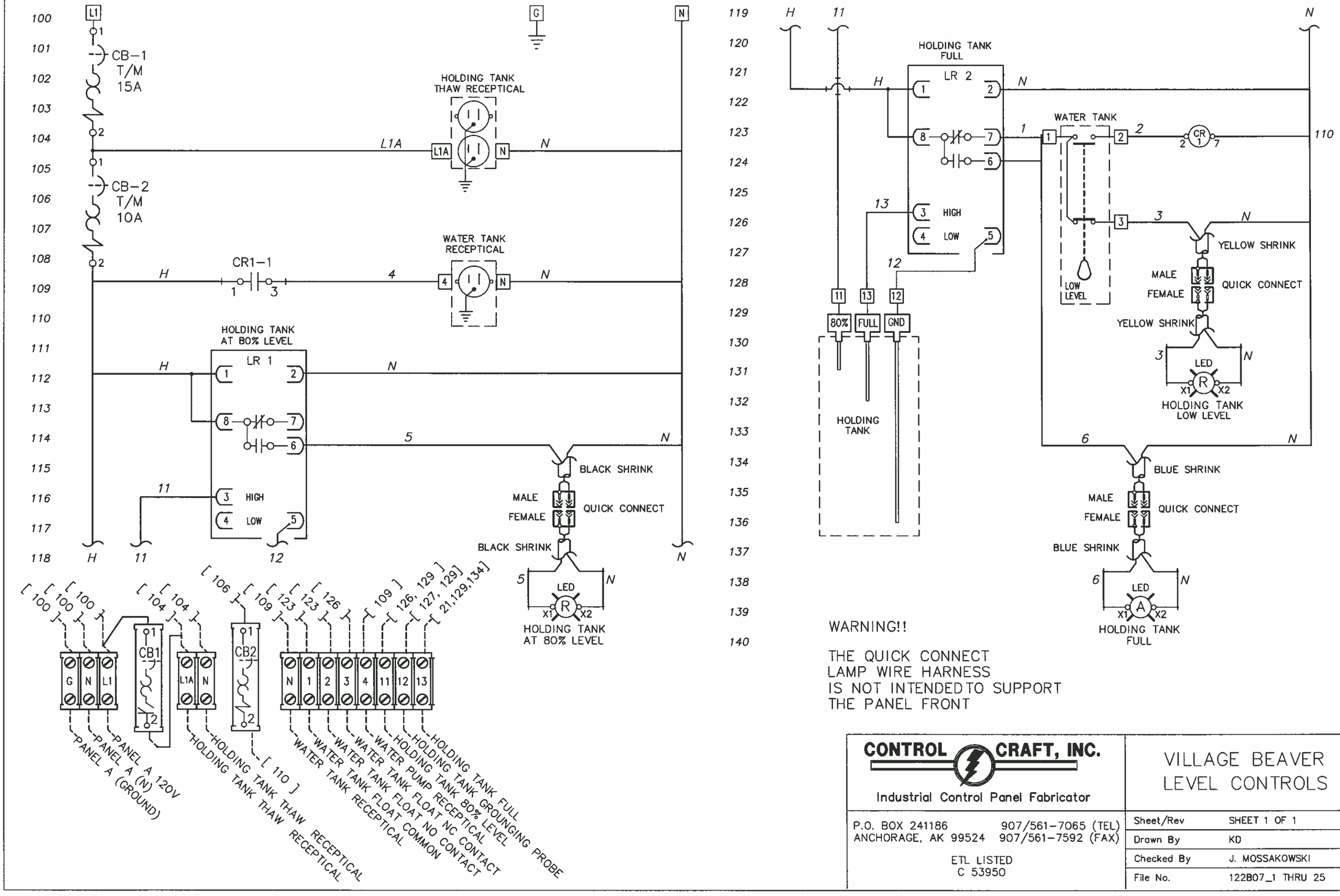
PHONE: (907) 561-2532
FAX: (907) 561-2273

VILLAGE OF BEAVER
SANITATION IMPROVEMENTS
BATHROOM UPGRADES
ELECTRICAL
ANN FISHER - BUILDING 71

REVISION	BY	DATE

Project No. 9966
Date SEP 2008
Designed WMM
Drawn WMM
Approved WMM

Sheet No. EP 15
SHEET 15 OF 15



WARNING!!

THE QUICK CONNECT
LAMP WIRE HARNESS
IS NOT INTENDEDTO SUPPORT
THE PANEL FRONT

JOE M, CCI 12/28/2007 11:02 PM LEVEL_CONTROLS.dwg

CONTROL CRAFT, INC.

Industrial Control Panel Fabricator

P.O. BOX 241186 907/561-7065 (TEL)
ANCHORAGE, AK 99524 907/561-7592 (FAX)

ETL LISTED
C 53950

VILLAGE BEAVER LEVEL CONTROLS

Sheet/Rev	SHEET 1 OF 1
Drawn By	KD
Checked By	J. MOSSAKOWSKI
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